

January 29, 2010

Mr. Sam Chummar
Work Assignment Manager
U.S. Environmental Protection Agency (EPA)
77 West Jackson Boulevard (SR-6J)
Chicago, IL 60604

Subject: Oversight Summary for January 18 through January 21, 2010 (Week 2)
Plainwell Mill Site, Operable Unit No. 7 of
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Plainwell, Allegan County, Michigan
Remedial Action Contract (RAC) 2 No. EP-S5-06-02
Work Assignment No. 041-RSBD-059B

Dear Mr. Chummar:

SulTRAC has prepared the enclosed summary to document Phase II remedial investigation activities at the above-referenced site from January 18 through 21, 2010 (Week 2). Weyerhaeuser Company is the potentially responsible party for the site, and Conestoga-Rovers & Associates, Inc. (CRA), is its environmental contractor. Appendix A of this summary contains a photographic log of the investigation activities. Appendix B contains SulTRAC's field oversight notes. Appendix C contains SulTRAC's field sample log. Attachment 1 contains CRA's site maps with proposed sample locations.

If you have any questions about the enclosed summary, please call me at (312) 201-7491.

Sincerely,

A handwritten signature in black ink, appearing to read "Jeffrey J. Lifka".

Jeffrey J. Lifka
Project Manager

Enclosure

cc: Norvelle Merrill-Crawford, EPA Contracting Officer (letter only)
Ron Riesing, SulTRAC Program Manager
File

ENCLOSURE

**OVERSIGHT SUMMARY
FOR JANUARY 18 THROUGH JANUARY 21, 2010 (WEEK 2)
PLAINWELL MILL SITE
PLAINWELL, ALLEGAN COUNTY, MICHIGAN**

(10 Pages)

**OVERSIGHT SUMMARY
FOR JANUARY 18 THROUGH JANUARY 21, 2010 (WEEK 2)
PLAINWELL MILL SITE
PLAINWELL, ALLEGAN COUNTY, MICHIGAN**

SulTRAC Oversight Personnel: Kristi Root, Tracey Koach, and Robert Kondreck
Reporting Period: January 18 through 21, 2010 (Week 2)

INTRODUCTION

As requested by the U.S. Environmental Protection Agency (EPA) under contract number EP-S5-06-02 and work assignment number 041-RSBD-059B, SulTRAC conducted oversight and split sampling for Phase II of the Remedial Investigation (RI) for the Plainwell Mill Site, Operable Unit No.7 of the Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site in Plainwell, Michigan. Weyerhaeuser Company (Weyerhaeuser) is the potentially responsible party (PRP) for the site. Conestoga-Rovers & Associates, Inc. (CRA) is the environmental consultant to Weyerhaeuser.

As requested by EPA, SulTRAC began oversight activities at the site on January 11, 2010. This report summarizes SulTRAC's oversight activities and documentation of the PRP's Phase II activities during Week 2 of the RI from January 18 through 21, 2010; issues and developments that arose during the oversight activities; and future activities. Appendix A contains a photographic log of Week 2's site activities, including Photographs 1 through 16. Appendix B contains a copy of SulTRAC's field oversight notes. Appendix C contains SULTRAC's field sample log. Attachment 1 contains CRA's site maps with proposed sample locations.

RI ACTIVITIES

During the second week of RI oversight excavation conducted from January 18 through 21, 2010, SulTRAC observed CRA advancing soil borings, excavating test pits, conducting vertical aquifer sampling (VAS) of the groundwater, collecting surface water samples, and surging/purging groundwater from existing and newly installed monitoring wells. CRA maintained two subsurface investigation crews on site. One drilling crew (Drill Crew-1) conducted VAS on Monday and was replaced on Tuesday with an excavation crew. The second drilling crew (Drill Crew-2) advanced soil borings throughout the week. CRA personnel not assigned to a drilling crew conducted surface water sampling and surged/purged groundwater from the existing and newly installed monitoring wells, in addition to processing samples. Also, the drilling rigs were owned and operated by CRA.

During Week 2, CRA advanced 28 soil borings (SB-110, SB-108, SB-107, SB-101, SB-106, SB-111, SB-308, SB-113, SB-112, SB-114, SB-116, SB-117, SB-115, SB-119, SB-144, SB-145, SB-143, SB-142, SB-102, SB-118, SB-103, SB-120, SB-104, SB-122, SB-124, SB-126, SB-105, and SB-128); excavated 10 test pits (Test Pit-201, 202, 203, 301, 302, 306, 303, 307, 305, and 304); collected two surface water samples (SW-1 and SW-2); and re-installed one temporary VAS well (VAS-2). Samples collected by CRA and SulTRAC during week 2 include: 94 subsurface soil samples (CRA) with 22 split samples, in addition to two duplicates and one matrix spike (MS)/matrix spike duplicate (MSD) (SulTRAC); two surface water samples (SW-1 and SW-2) with no split-surface water samples (CRA); and two VAS samples (CRA) with one split sample (SulTRAC). Details for soil samples collected by CRA and SulTRAC are summarized in Appendix C. Sample locations are provided in CRA figures found in Attachment 1.

CRA collected (1) VAS groundwater samples for analysis for volatile organic compounds (VOC), semi-volatile organic compounds (SVOC), and filtered and un-filtered metals; (2) soil samples from test pits and soil borings for analysis for VOCs, SVOCs, polychlorinated biphenyls (PCB), metals, Synthetic Precipitation Leaching Procedure (SPLP) metals, and general chemistry in addition to cyanide for selected soil borings; and (3) surface water samples for analysis for low-level mercury, methyl mercury, and hardness. SulTRAC collected (1) split VAS samples for analysis for VOCs, SVOCs, and filtered and un-filtered metals; and (2) soil samples from soil borings and test pits for analysis for VOCs, SVOCs, PCBs, metals, and cyanide. SulTRAC hand delivered soil samples to be analyzed for cyanide and metals, and water samples to be analyzed for metals, to its subcontractor laboratory, TriMatrix Laboratories, in Grand Rapids, MI. SulTRAC shipped all other split samples by overnight courier to an EPA Contract Laboratory Program (CLP) laboratory.

Monday, January 18, 2010

At 8:00 a.m., SulTRAC representatives Robert Kondreck, Tracey Koach, and Brian Malone arrived on site. The weather was overcast, with temperatures in the 30s degrees Fahrenheit (°F). CRA personnel on site included two drill crews (Geoprobe), three field technicians (David Rivers, Corrie Bondy, and Evan Varnas), and the field project coordinator (Jodi Dembowski). The field project coordinator was on site infrequently throughout the day. CRA collected VAS groundwater samples for analysis for VOCs, SVOCs, filtered and un-filtered metals; and soil samples from test pits and soil borings for analysis for VOCs, SVOCs, PCBs, metals, SPLP metals, and general chemistry, in addition to cyanide for selected soil borings. SulTRAC collected split VAS samples for analysis for VOCs, SVOCs, and filtered and un-filtered metals; and soil samples from soil borings and test pits for analysis for VOCs, SVOCs, PCBs, metals, and cyanide. Details involving sample identification and sample times are provided in Appendix C.

At 8:30 a.m., Drill Crew-1 began setting the temporary screen at the VAS location 2 (see Photograph No. 1 in Appendix A). Also in the morning, CRA continued to surge and purge new and existing monitoring wells using a high-volume pump (such as a Monsoon Pump). Drilling water used during monitoring well installation was removed and placed in a 200-gallon tote on the back of a CRA pickup truck (see Photograph No. 2 in Appendix A). Surging discontinued in new and existing wells after the water became visibly clear. A minimum of 10 gallons was removed from existing wells and a minimum of 28 gallons was removed from newly installed monitoring wells. Monitoring well surging/purging continued throughout the day.

At 9:30 a.m., Drill Crew-2 continued soil boring advancement in Area 1 starting at SB-110. Two samples were collected by CRA at this location: one from the 0- to 1-foot below ground surface (bgs) interval and one from the 8- to 10-foot bgs interval. SulTRAC did not collect any split samples at this location. Around 11:00 a.m., Drill Crew-2 mobilized to SB-108 and collected three samples (0 to 1 foot, 6.5 to 8.5 feet, and 8.5 to 10 feet bgs). SulTRAC collected one split sample at the 6.5- to 8.5-foot bgs interval. At 11:35 a.m., Drill Crew-2 broke for lunch.

By 9:55 a.m., Drill Crew-1 had stabilized water quality parameters at VAS-2 for the 26- to 30-foot bgs interval and collected a sample. SulTRAC collected a split sample from that location. CRA repeated the sampling process at VAS-2 for the 30- to 32-foot bgs interval. At 11:35 a.m., CRA sampled the 30- to 32-foot bgs interval. At 12:20 p.m., CRA and SulTRAC broke for lunch.

At 12:15 a.m., Drill Crew-2 returned from lunch and mobilized to SB-107. At SB-107 CRA collected three samples (0 to 1 foot, 6.5 to 8.5 feet, and 8.5 to 10 feet bgs). SulTRAC did not collect any samples. At 1:05 p.m., CRA mobilized to SB-101 and collected three samples (0 to 1 foot, 6.8 to 8.8 feet, and 8.8 to 9.5 feet bgs). SulTRAC collected a split sample at the 0- to 1-foot bgs interval. At 1:30 p.m., Drill Crew-1 began preparing to advance soil boring SB-308 using a jackhammer with a direct-push core barrel affixed to the end. A jackhammer was used instead of a Geoprobe at SB-308 due to accessibility issues at that location (see Photograph No. 3 in Appendix A). During advancement, CRA collected three soil samples (0 to 2 feet, 3 to 5 feet, and 7.5 to 9.5 feet bgs). Following completion of SB-308, Drilling Crew-1 discontinued operations and began preparing for site departure. In exchange for the Geoprobe, an excavator was delivered to the site in preparation for test pit excavations starting on Tuesday.

At 2:25 p.m., Drill Crew-2 mobilized to SB-106. CRA collected three samples (0 to 1 foot, 3.5 to 5.5 feet, and 8 to 10 feet bgs) with one duplicate sample at the 8- to 10-foot bgs interval. SulTRAC did not collect any split samples at SB-106. At 3:45 p.m., CRA mobilized to SB-111. CRA collected two samples, one each from 0 to 1 foot bgs and the 7- to 9-foot bgs intervals. SulTRAC collected one split sample from the 0- to 1-foot bgs interval.

Following completion of SB-308 and SB-111, CRA discontinued drilling activities and prepared samples for shipment. SulTRAC left the site at 4:45 p.m.

Tuesday, January 19, 2010

At 8:00 a.m., SulTRAC representatives, Robert Kondreck and Brian Malone arrived on site. Tracey Koach was on site frequently throughout the day but mostly prepared samples for shipment off site. The weather was overcast, in the 30s °F. CRA personnel on site included one drill crew (Geoprobe) and an excavator, three field technicians (David Rivers, Corrie Bondy, and Evan Varnas), and the field project coordinator (Jodi Dembowske). The field project coordinator was on site infrequently throughout the day. CRA collected soil samples from test pits and soil borings for analysis for VOCs, SVOCs, PCBs, metals, SPLP metals, and general chemistry, in addition to cyanide for selected soil borings; and surface water samples for analysis for low-level mercury, methyl mercury, and hardness. SulTRAC collected split soil samples from soil borings and test pits for analysis for VOCs, SVOCs, PCBs, metals, and cyanide. Details involving sample identification and sample times are provided in Appendix C.

Starting on Tuesday, CRA would have one crew operating an excavator for test pit investigations, and a second crew conducting subsurface investigations through use of a Geoprobe. At 8:30 a.m., the excavator was moved to SB-114 and began to remove soil to ease access to the soil boring location (see Photograph No. 4 in Appendix A). Starting in the morning, CRA began purging new and existing monitoring wells until water quality parameters had stabilized or 5 well volumes had been removed. CRA used a peristaltic pump to remove the groundwater from the well and measured water quality using a QED MP20 at a frequency of one reading per well volume. By 9:15 a.m., the excavator had finished creating an access to SB-114 and had begun using the skid-steer to create a pathway in the wooded area of Area 1 (see Photograph No. 5 in Appendix A). At 10:40 a.m., CRA finished creating a path in Area 1 and began preparing for test pit excavations. Excavation equipment used was a Komatsu (Avance PC200) excavator with a 4-foot-wide, 3-foot-deep bucket. At 11:00 a.m., CRA began excavating Test Pit 201 in Area 2. CRA collected two samples, one each from the 0- to 2-foot and the 8- to 10-foot bgs intervals. SulTRAC collected one split sample from the 8- to 10-foot bgs interval. After backfilling Test Pit 201, CRA and SulTRAC broke for lunch.

At approximately 8:30 a.m., the drill crew began advancing SB-113 to 20 feet bgs, collecting samples at the 0- to 1-foot and 8- to 10-foot bgs intervals. SulTRAC did not collect split samples at SB-113. At approximately 9:00 a.m., CRA mobilized to SB-112 and began advancing the soil boring to 20 feet bgs, collecting samples at the 0- to 1-foot and 6- to 8-foot bgs intervals, in addition to collecting a duplicate at the 0- to 1-foot bgs interval. SulTRAC collected a split sample and a duplicate sample at the 0- to 1-foot bgs interval. At 10:35 a.m., CRA began advancing SB-114 to 20 feet bgs (see Photograph No. 6 in Appendix A), collecting samples at the 0- to 1-foot and 8- to 10-foot bgs intervals. SulTRAC did not collect a split sample. At 11:35 a.m., CRA and SulTRAC broke for lunch.

At 12:15 p.m., the drill crew began advancing SB-116 to 20 feet bgs and collected samples from the 0- to 1-foot, 7- to 9-foot, and 9.5- to 10-foot bgs intervals. SulTRAC collected one split sample at the 7- to 9-foot bgs interval. At 1:15 p.m., CRA began advancing SB-117 to 20 feet bgs. The location of SB-117 was offset 4 feet to the east due to utilities. At SB-117, CRA collected samples from the 0- to 1-foot and 8- to 10-foot bgs intervals. Double volume was collected at 0 to 1 foot bgs to use as a MS/MSD sample for laboratory quality control. SulTRAC did not collect any split samples.

At 1:20 p.m., the Excavation Crew began excavating Test Pit 202 to 10 feet bgs. CRA collected two samples (1 to 2 feet and 8 to 10 feet bgs). CRA collected a duplicate at the 1- to 2-foot depth. SulTRAC did not collect a split sample. CRA ended excavation activities at 2:20 p.m., after backfilling Test Pit 202.

At 2:00 p.m., CRA was preparing to collect a surface water sample at location SW-1 (see Photograph No. 7 in Appendix A). CRA (Evan Varnas and Jodi Dembowski) used clean hands/dirty hands technique to collect the low-level mercury sample. At 2:45 p.m., CRA began preparing to collect a surface water sample at location SW-2. At 2:35 p.m., the Drill Crew mobilized to SB-115. After several attempts to advance the soil boring, CRA successfully completed the soil boring to 20 feet bgs on the third try and collected samples from 0 to 1 foot, 3 to 5 feet, and 9 to 10 feet bgs. SulTRAC collected one split sample from the 3- to 5-foot bgs interval. At 3:45 p.m., CRA mobilized to SB-119 and advanced a soil boring to 20 feet bgs. CRA collected samples at SB-119 at the 0- to 1-foot and the 8- to 10-foot bgs intervals. SulTRAC collected one split sample at the 8- to 10-foot bgs interval. At 4:45 p.m., CRA completed soil sampling for the day. At 4:55 p.m., SulTRAC left the site to deliver the samples for metals and cyanide analyses to TriMatrix in Grand Rapids and also ship CLP samples by FedEx.

Wednesday, January 20, 2010

At 8:00 a.m., SulTRAC representatives, Robert Kondreck and Brian Malone arrived on site. Tracey Koach was on site frequently throughout the day but mostly prepared samples for shipment off site. The weather was sunny and 22 °F. CRA personnel on site included one drill crew (Geoprobe) and an excavator, three field technicians (David Rivers, Corrie Bondy, and Evan Varnas), and the field project coordinator (Jodi Dembowski). The field project coordinator was on site infrequently throughout the day. CRA collected soil samples from test pits and soil borings for analysis for VOCs, SVOCs, PCBs, metals, SPLP metals, and general chemistry, in addition to cyanide for selected soil borings. SulTRAC collected split soil samples from soil borings and test pits for analysis for VOCs, SVOCs, PCBs, metals, and cyanide. Details involving sample identification and sample times are provided in Appendix C.

In addition, CRA had one technician purging groundwater from the monitoring wells. During groundwater purging, water quality measurements were recorded every well volume until they had stabilized or 5 well volumes had been removed. At 8:30 a.m., the excavation crew began excavating Test Pit 203 to 10 feet bgs (see Photograph No. 8 in Appendix A). CRA collected three samples at 0.5- to 1.5-feet, 2- to 4-feet, and 8- to 10-feet bgs. SulTRAC collected one split sample at the 0.5- to 1.5-foot bgs interval. After backfilling Test Pit 203, CRA decontaminated the excavator before moving to Test Pit-301 in Area 3 (see Photograph No. 9 in Appendix A).

At 9:00 a.m., the CRA drill crew began advancing SB-114 to 20 feet bgs, and collected two samples from the 0- to 1-foot and 7- to 9-foot bgs intervals. CRA also collected a duplicate sample from the 7- to 9-foot bgs interval. SulTRAC did not collect a split sample at SB-114. At 10:20 a.m., CRA mobilized to SB-145. CRA advanced SB-145 to 20 feet bgs and collected two samples from the 0- to 1-foot and 7.5- to 9.5-foot

bgs intervals. SulTRAC collected a split sample at the 0- to 1-foot bgs interval. At 11:30 a.m., CRA began advancing SB-143 to 20 feet bgs. CRA collected two samples at the 0- to 1-foot and 8- to 10-foot bgs intervals. SulTRAC did not collect a split sample. At 12:10 p.m., CRA and SulTRAC broke for lunch.

At 11:30 a.m., CRA began excavating Test Pit 301 to 10 feet bgs, and collected three samples from the 0- to 1-foot, 6- to 8-foot, and 8- to 10-foot bgs intervals. SulTRAC collected one split sample at the 6- to 8- foot bgs interval. At 12:40 p.m., CRA and SulTRAC broke for lunch.

At 1:15 p.m., the CRA Drill Crew began advancing SB-142 to 20 feet bgs. CRA collected two samples from the 0- to 1-foot and the 8.5- to 10.5-foot bgs intervals. SulTRAC collected a split sample from the 8.5- to 10.5-foot bgs interval. At 2:00 p.m., CRA mobilized to SB-102. The marker for the boring had been removed, so CRA conducted a field measurement off of SB-114 to determine the location. CRA advanced SB-102 to 20 feet bgs and collected two samples at the 0- to 1-foot and 8- to 10-foot bgs intervals. SulTRAC did not collect a split-sample.

At 1:40 p.m., CRA began excavating Test Pit 302 to 11 feet bgs. CRA collected three samples, one each from the 0.5- to 1.5-foot, 4- to 6-foot, and 10- to 11-foot bgs intervals. SulTRAC collected a split sample at the 4- to 6-foot interval. At 3:10 p.m., CRA began excavating Test Pit 306. The excavation was only to 7 feet bgs due to sidewall collapse. CRA collected two samples at the 0.5- to 1.5-foot and 6- to 7-foot intervals, in addition to collecting a sample from the 6- to 7-foot bgs interval to use as a duplicate. At 4:05 p.m., CRA finished backfilling Test Pit 306 and ended excavation activities for the day.

At 3:15 p.m., the CRA Drill Crew advanced soil boring SB-118 to 20 feet bgs (see Photograph No. 10 in Appendix A). CRA collected two samples, one each at the 0- to 1-foot and 7.5- to 9.5-foot bgs intervals. In addition to the usual analyses, CRA selected SB-118 for analysis for cyanide. SulTRAC did not collect a split sample. At 4:00 p.m., CRA mobilized to SB-103. CRA advanced SB-103 to 20 feet bgs and collected two samples from the 0- to 1-foot and 7- to 9-foot bgs intervals. SulTRAC collected a split sample at the 7- to 9-foot bgs interval. SulTRAC left the site at 5:15 p.m.

Thursday, January 21, 2010

At 8:00 a.m., SulTRAC representatives, Robert Kondreck and Brian Malone arrived on site. Tracey Koach was on site frequently throughout the day but mostly prepared samples for shipment off site. The weather was sunny and 24 °F. CRA personnel on site included one drill crew (Geoprobe) and an excavator, three field technicians (David Rivers, Corrie Bondy, and Evan Varnas), and the field project coordinator (Jodi Dembowske). The field project coordinator was on site infrequently throughout the day. CRA collected soil samples from test pits and soil borings for analysis for VOCs, SVOCs, PCBs, metals, SPLP metals, and general chemistry, in addition to cyanide for selected soil borings. SulTRAC collected split soil samples from soil borings and test pits for analysis for VOCs, SVOCs, PCBs, metals, and cyanide. Details involving sample identification and sample times are provided in Appendix C

In addition, CRA had a technician purging groundwater from the monitoring wells. During groundwater purging, water quality measurements were recorded every well volume until they had stabilized or 5 well volumes had been removed. CRA finished well development on January 21, 2010.

At 8:10 a.m., the CRA Drilling Crew began advancing SB-120 to 20 feet bgs. CRA collected two samples, one each from the 0- to 1-foot and 7.75- to 9.75-foot bgs intervals, in addition to collecting a duplicate sample at the 7.75- to 9.75-foot bgs interval. SulTRAC collected a split sample from the 7.75- to 9.75-foot bgs interval. At 9:30 a.m., CRA began advancing SB-104 to 20 feet bgs. CRA collected four samples, one each from the 0- to 1-foot, 3- to 5-foot, 5- to 7-foot, and 8- to 10-foot bgs intervals. An MS/MSD sample was collected by CRA at the 3- to 5-foot bgs interval. SulTRAC collected a split sample at the 0- to 1-foot bgs interval. At 10:45 p.m., CRA began advancing SB-122 to 20 feet bgs. CRA collected two samples, one each from the 0- to 1-foot and 8- to 10-foot intervals. SulTRAC collected a split sample from the 8- to 10-foot bgs interval. At 11:45 a.m., CRA and SulTRAC broke for lunch.

At 8:30 a.m., the CRA Excavation Crew began setting up at Test Pit 303 in Area 3. CRA excavated Test Pit 303 to 8 feet bgs and collected two samples from the 0- to 1-foot and 6- to 8- foot bgs intervals (see Photograph No. 11 in Appendix A). SulTRAC collected one split sample from the 6- to 8-foot bgs interval. At 10:15 a.m., CRA excavated Test Pit 307 to 10 feet bgs. CRA collected three samples, one each from the 0.5- to 1.5-foot, 2- to 3-foot, and 8- to 10-foot bgs intervals, plus a duplicate sample from the 0.5- to 1.5-foot bgs interval. SulTRAC collected a split sample from the 2- to 3-foot bgs interval and a duplicate sample from the same interval. Following completion of Test Pit 307, CRA and SulTRAC broke for lunch.

At 12:25 p.m., the CRA Drilling Crew began advancing SB-124 to 20 feet bgs. CRA collected two samples, one each from the 0- to 1-foot and 8- to 10-foot bgs intervals. SulTRAC collected a split sample from the 8- to 10-foot bgs interval. At 1:50 p.m., CRA began advancing SB-126 to 20 feet bgs. CRA collected two samples, one each from the 0- to 1-foot and 7.5- to 9.5-foot bgs intervals. SulTRAC collected a split sample from the 7.5- to 9.5-foot bgs interval. At 2:50 p.m., CRA began advancing SB-105 to 20 feet bgs (see Photograph No. 12 in Appendix A). CRA collected four samples, one each from the 0- to 1-foot, 1- to 3-foot, 3- to 5-foot, and 8- to 10-foot intervals. SulTRAC did not collect a split sample. At 3:40 p.m., CRA began advancing SB-128 to 20 feet bgs. CRA collected three samples, one each from the 0- to 1-foot, 3- to 5-foot, and 11.5- to 13.5-foot bgs intervals. CRA also collected a duplicate sample from the 3- to 5-foot bgs interval. SulTRAC did not collect a split sample.

At 1:10 p.m., the CRA Excavation Crew began excavating Test Pit 305 to 8 feet bgs. CRA collected three samples, one each from the 0.5- to 1.5-foot, 2- to 4-foot, and 6- to 8-foot bgs intervals. SulTRAC collected a split-and duplicate samples from the 0.5- to 1.5-foot bgs interval. At 2:50 p.m., CRA began excavating Test Pit 304 to 7 feet bgs. CRA collected three samples, one each from the 0.5- to 1.5-foot, 2- to 4-foot, and 5- to 7-foot bgs intervals. SulTRAC did not collect split samples from Test Pit 304. At 5:10 p.m., SulTRAC left the site after finishing sample processing for hand delivery of samples to TriMatrix in Grand Rapids, Michigan, and shipment of CLP samples by FedEx to EPA's CLP laboratory.

ISSUES AND DEVELOPMENTS

According to Section 5.1.3 of CRA's work plan, VAS samples were to be collected using a bailer. In addition, well purging was not required prior to sampling. During VAS sampling, CRA used a peristaltic pump to remove water from the temporary well. After water quality measurements had stabilized (except for turbidity), the temporary well interval was sampled using the peristaltic pump. This change in purging and sampling should not have an effect on the sample quality.

CRA offset some soil borings due to the presence of underground utilities. The soil borings were offset no more than 5 feet in the direction deemed least hazardous away from the utilities. This minor change in some sample boring locations should have no effect on the sample quality.

CRA continued to collect fewer samples than originally anticipated due to a higher water table being encountered at the site during drilling and sampling activities. In addition, the change in soil boring sampling procedures (made to accommodate a more efficient process to collect VOC samples) as noted in this section of the Week 1 report also continued during Week 2.

FUTURE ACTIVITIES

As requested by EPA, SulTRAC will continue performing oversight and split sampling activities until the Phase II RI is complete. SulTRAC will submit weekly summary reports to EPA for the duration of the Phase II RI field activities.

APPENDIX A
SULTRAC PHOTOGRAPHIC LOG
(Seven Pages)



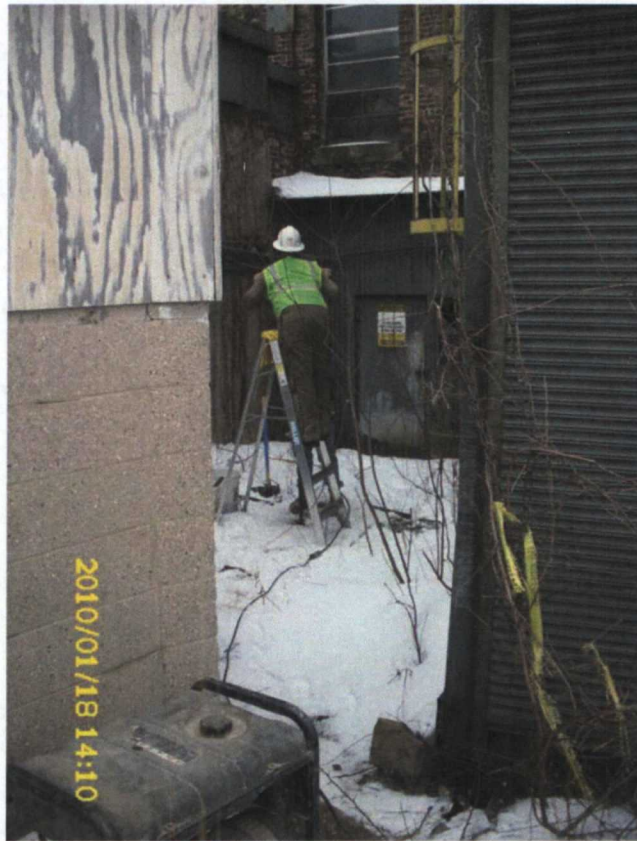
Photograph No. 1
 Orientation: Southeast
 Description: Slid-out well screen used for vertical aquifer sampling (VAS).

Location: Plainwell Mill Site
 Date: January 18, 2010



Photograph No. 2
 Orientation: Northwest
 Description: Conestoga-Rovers & Associates, Inc. (CRA) surging and purging MW-5 using a high-volume pump.

Location: Plainwell Mill Site
 Date: January 18, 2010



Photograph No. 3

Orientation: Northeast

Description: CRA advancing soil boring SB-308 using a jackhammer with a sampling barrel attachment.

Location: Plainwell Mill Site

Date: January 18, 2010



Photograph No. 4

Orientation: East

Description: Soil removal by CRA at SB-114 in order to gain better access.

Location: Plainwell Mill Site

Date: January 19, 2010



Photograph No. 5

Orientation: North

Description: Path cleared to soil borings in Area 1 using a skid-steer.

Location: Plainwell Mill Site

Date: January 19, 2010



Photograph No. 6
Orientation: Northwest
Description: Advancing SB-114.

Location: Plainwell Mill Site
Date: January 19, 2010



Photograph No. 7
Orientation: Southeast
Description: Collecting surface water samples at SW-1.

Location: Plainwell Mill Site
Date: January 19, 2010



Photograph No. 8
 Orientation: Northwest
 Description: Excavating Test Pit 203.

Location: Plainwell Mill Site
 Date: January 20, 2010



Photograph No. 9
 Orientation: West
 Description: Decontaminating the excavator bucket.

Location: Plainwell Mill Site
 Date: January 20, 2010



Photograph No. 10
 Orientation: Northeast
 Description: Advancing SB-118.

Location: Plainwell Mill Site
 Date: January 20, 2010



Photograph No. 11
 Orientation: South
 Description: Collecting a sample for volatile organic compounds (VOC) analysis from the excavator bucket at Test Pit 303

Location: Plainwell Mill Site
 Date: January 21, 2010



Photograph No. 12
Orientation: Northeast
Description: Advancing SB-105.

Location: Plainwell Mill Site
Date: January 21, 2010

APPENDIX B
SULTRAC OVERSIGHT FIELD NOTES
(23 Sheets)

1-14-10

1315 START SB-307 

0.5 Crushed Conl \rightarrow DK. Bw F Sand \overline{TC} M-Gravel

5-10 $\Delta A \rightarrow L + B_{in} F.SAND \rightarrow S + G \leftarrow$

10-20 S16 @ 17' Black Shales only on S16

1352 Photo (W) of SB-307 location

1400 SO 56394- CB- 011410 - 047 (0-1) (30)

1405 " " 048 (6-2) (31)

1410 " " - 049 (68) Dup

1415 W H. 050 (8-10) (62)

1430 Begin installing MW-19, setting well
from (8-15) 35-gallons →

1456 Installing MW19 Photo(s) _____

1535 ~~Install~~ Begin installing MW-13
(9-16) 15-gallons

1614 Photo (SE) Installed MW-19 ———→

1-14.10

Shirley

4-18-10

0800 Sultrac (~~Kir~~ Kowdreck & Kohn)

arrive onsite. Site Safety meeting
by CRA. CRA Z crews of Drillers
& Z geologist. CRA PC (Jodi
onsite. Location service onsite

0830 Begin sailing VAP-2 —————

0953 Well Screen Photo (Overview)

0954 Photo (overview) close-up of screen

0955 Sample VAP-2 (26.30) VA-2

VAS-56394-DR-011810-1018

1040 Finished (26.50) sampling Begin advancing
screen to 30-32

1050 CRA purging ~~MW-4~~ MW-3 then MW-4
~10 gallons or clear turbs drawn out

1129 CRA purging MW-5 Photo (NW)

1135 CRA sampling VAS-2 (30-32)

VAS- 56394 - DV - 011810 - 1019

Backnote SLTRAC sampled VAS-2 (26-30) e 0455
SVAS-56394-DQ-011810-1018

Backhoe 1050 Using high volume pump to remove existing well water

1200 Finish ² sampling VAS-2 (30-32)

Backknoch Sultra (Maurone) ans. k € 1000

1220 Lunch _____

1-18-10

to the

Plainwell Mill

1-18-2010

- 1250 S. ITRAC onsite ———— KL
 1330 CRA prepared to drill SB-308 ———— KL
 1341 Photo (NE) of SB-308 ———— AL
 1350 CRA begins hand probe using a jackhammer at SB-308 ———— KL
 1410 Sample SO-56394-DR-011810-1020 (0-2) ①
 1410 Photo (NE) Advancing SB-308 w/a jackhammer
 1415 SO-56394-DR-011810-1021 (3-5) ②
 1420 SO-56394-DR-011810-1022 (7 1/2-9 1/2) ③
 1430 S. ITRAC leaves site ———— KL
 Behind Weather, overcast, 30s, little to no wind

1-18-2010
 [Signature]

Plainwell Mill

1-19-10

- 0800 S. ITRAC (Malone & Kowdzick) onsite
 Site Safety meeting Weather 30s no wind, overcast ———— KL
 0830 CRA using excavator to ^{access} SB-114 by building a ramp to the location
 0852 Photo (E) of SB-114 location
 CRA continues to purge new & existing monitoring wells. New wells were pumped last week. Existing wells 10-gallons were removed then water quality readings were recorded for 3-well volumes
 0915 CRA using bobcat to create a path in the wooded area ———— AL
 1003 Photo (W) CRA clearing path in wooded area ———— KL
 1040 Finish path making, prepare for test pits
 1100 CRA laying out visqueen prior to excavation
 Photo (W) Begin test pit excavation
 Test Pit 201 ———— AL
 0-1 Asphalt ———— KL
 1-2 Fill/Gravel ———— KL
 2-10 Rock/Bu F. Sand w Cables 1"-1' diam. rounded

1-19-10

[Signature]

PLAINWELL Mill

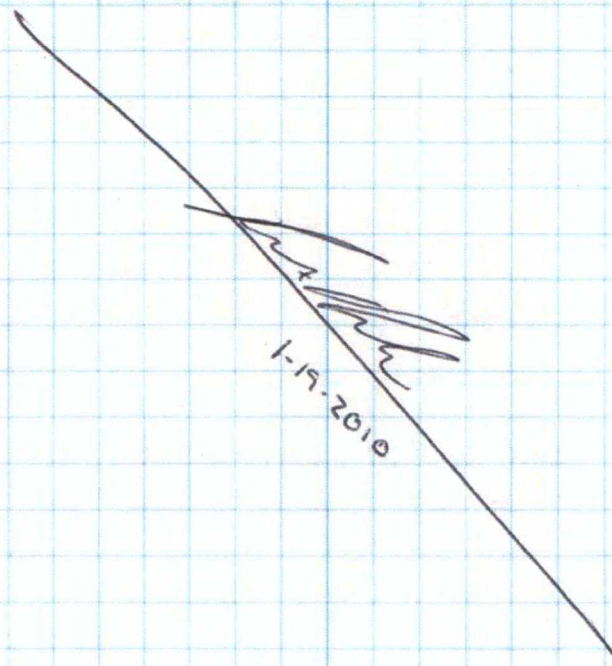
1-19-10

- 1127 Photo (W) Test Pit 201 ———— KK
- 1105 SO-56394-DR-011910-1023 (10-2) ④
- 1130 SO-56394-DR-011910-1024 (8-10) ⑤
- 1130 S-30-56394-DR-011910-1024 (8-10) ①
Sultrac Split Samples
- 1150 Begin backfilling ———— KK
- 1153 Backfilling Test Pit 201 ———— KK
- 1230 Lunch ———— KK
- 1300 End Lunch ———— KK
- 1320 Begin excavation on Test Pit 202.
- 1329 Photo (S) Test Pit 202 ———— KK
- 0-1 1/2 Asphalt & f:11 (1/2) Crushed Asphalt ———— KK
- 1 1/2 2 DK Bw F.Sand ———— KK
- 2-7 Rd Bw F.Sand w/ Cobble 1"-1' semi-roller
- 7-10 Coarse S.G ———— KK
- 1348 Photo (E) Test Pit 202 ———— KK
- 1330 SO-56394-DR-011910-1025 (1-2) ⑥
- 1335 SO-56394-DR-011910-1026 (1-2) Dup ⑦
- 1340 SO-56394-DR-011910-1027 (8-10) ⑧
- 1400 CRA preparing to collect surface water sample at location SW-1 ———— KK
- 1413 Photo (SE) Sampling at SW-1 ———— KK
- 1420 Photo (NW) " " ———— KK
- Stream moving fairly quickly, 34°
- 1-19-10
KK

PLAINWELL Mill

1-19-10

- 1420 Filling back in the Excavation Test Pit 202
- 1445 CRA setting-up at Surface water sampling location SW-2
- 1454 Photo (E) Surface water sampling at SW-2 wearing Tyvek for low-level th tests
- 1028 SW-1
1029 SW-2
1030 FRIP Bk



PLAINWELL MILL

1-20-10

0800 SUTRAC (MALONE & KONDRECK) onsite

Weather 22° Sunny no wind

Site Safety Meeting

0830 CRA begins Test Pit excavation, soil boring advancement, & well Development

0850 CRA excavating Test Pit 203

0-4/2 Gravel Fill

1/2-1 1/2-2' Crushed Coal

2-4' Rd Br F. Sand & Cobble (semi-rounded) < 1"-1/2"

4-10' Rd Br F. Sand

4' x 10' excavation 10' deep

0918 Photo (SW) Test Pit 203

0845 SO-56394-DR-012010- 1031 (1/2-1 1/2) (3)

0900 " " 1032 (2-4) (4)

0925 " " 1033 (8-10) (5)

SUTRAC Split (1/2-1 1/2) (20845) (3)

S-50-56394-DR-012010-1031

0935 Photo (NW) Test Pit 203

1030 CRA decommissioning excavator

1057 Photo (W) Cleaning excavator bucket (12)

1130 Begin excavation of Test Pit 301

1148 Photo (S) Excavating Test Pit 301

0-1/2' Li Br F. Sand

1/2-6' Li Br F. Sand Remnants of housing foundation w/ concrete on 1' rounded cobbles

1-20-10

hwc

PLAINWELL MILL

1-20-10

6-8' Pen gravel w/ F. Sand

8-10' A.A. w/ cobbles

1135 SO-56394-DR-012010- 1034 (6-11)

1210 " " 1035 (6-8)

1210 S-50-56394-DR-012010- 1035 (6-8)

SUTRAC SPLIT SAMPLE (3)

1225 SO-56394-DR-012010- 1036 (8-10)

1240 Lunch

1310 End Lunch send e-mails

1320 SUTRAC On-site

1340 Begin Excavating TP-302

0-4/2 Asphalt / Crushed Asphalt

1/2-4' Dk Br F. Sand & Clay

4-6/2 Dumped household waste (Bed springs, shoes, cans etc) mixed w F. Sand & Clay

6 1/2-9/2 A.A.

9/2-10' Rd Br F.S. & G

1345 SO-56394-DR-012010- 1037 (1/2-1 1/2)

1400 " " 1038 (4-6)

1400 S-50-56394-DR-012010- 1038 (4-6)

SUTRAC SPLIT SAMPLE (4)

1425 SO-56394-DR-012010- 1039 10-11

1450 Filling in Excavation TP-302

1040 ← Trip Blank
1-20-10

hwc

PLAINWELL Mill

1-20-10

Begin ~~11~~

1510 Begin Test Pit 306 ~~11~~

1533 Photo (E) CRA sampling TP-306 ~~11~~
Photo (S) Test Pit 306 ~~11~~

0-1/2 Asphalt ~~11~~

1/2-2 DK Br F-Sand ~~11~~

2-7 BuRo F-Sand w/ Cobles 1"-1' semi-tan ~~11~~
towards bottom S&G ~~11~~

1515 SO-56394-DR-012010 - 1041 (1/2-1 1/2) (21)

1535 " " 1042 (6-7) (22)

1540 " " 1043 (6-7) Dup

1605 Filling in TP-306

Well Raging & Surging Chronology - 11s lowest 28 or more at least 12 10 gals

Backnote 1-13-10 Background well measurements

1-15-10 Surging Drilling Volume / Unit Clear

1-18-10 A.A.

1-19-10 Began low-level background Chem
Temp, Cond, pH, Turb, Calc w/ volu
Measurements at each well volume

1-20-10

PLAINWELL Mill

1-21-10

0800 Sultrac (Malone & Kondreck) arrive onsite
Weather 24° no wind Clear, Site Safety

0830 CRA setting up Test Pit 303

0-1 Topsoil / Fill ~~11~~

1-5 DK Br F-Sand ~~11~~

5-6 A.A. w/ Cobles 1"-1' ~~11~~

6-8 S&G ~~11~~

0835 SO-56394-DR-012110 - 1044 (0-1) (21)

0855 " " - 1045 (6-8) (22)

Sultrac Split Sample MS/MSD (5)

0855 S-SO-56394-DR-012110-1045 (6-8)

0935 Photo (SE) Test Pit 303 ~~11~~

1015 Begin excavating Test Pit 307

1045 Photo (S) Sampling Test Pit 307 (8-10) ~~11~~ ^{sampled} ^{Split}

0-3 Fill material, Brick Debris, Bursted Asphalt (~2')

3-8 L Br F-Sand w/ Cobles 1"-1' increasing
quantity with depth ~~11~~

8-10 S&G ~~11~~

1020 SO-56394-DR-012110 - 1046 (1/2-1 1/2) (21)

1025 " " - 1047 (1/2-1 1/2) Dup

1045 " " - 1048 (8-10) (22)

1120 " " - 1049 2-3 (23)

1120 S-SO-56394-DR-012110-1049 (2-3) (24)

1125 SD-SO-56394-DR-012110-1049 (2-3) Dup

Sultrac Split
1-21-10

Plainwell Min 1-21-10

1200 S-Ltrac lunch ————— 2

1230 S-Ltrac Returns from lunch ————— 2

Backnote CRA collecting water quality readings from all MWs ————— 1

1310 Excavating TP-305 ————— 3

0-2 Asphalt, Gravel (1/4") Crush Asphalt/Slag, Blk ————— 2

Crush Asphalt/Slag ————— 2

2-6 F. Sand w/ Cobles 1"-1" semi-round ————— 2

6-8 S&G ————— 3

1413 Photo (S) of Test Pit-305 ————— 1

1340 SO-56394-DR-012110 - 1050 (1/2-1/2) (23)

1340 S-50-56394-DR-012110 1050 (1/2-1/2) (24)

S-Ltrac Split Sample (7)

1350 SO-56394-DR-012110 - 1051 MS/MSD (2-4) (25)

1405 " " - 1052 6-8 (26)

1450 Begin Excavating Test Pit-304 ————— 2

0-1 Crushed Asphalt, Slag ————— 2

1-5 1/2 F. Sand w/ increasing Cobles 1"-1" increasing towards bottom ————— 2

5 1/2-7 S&G ————— 4

1524 Photo (S) Test Pit 304 ————— 2

1455 SO-56394-DR-012110 - 1053 (1/2-1/2) (27)

1505 " " - 1054 (2-4) (28)

1515 " " - 1055 (5-7) (29)

1-21-10

Plainwell Min 1-21-10

1530 Begin filling in excavation Test Pit-304

1700 Packed samples leave site ————— 1

4

Allied-Plainwell

01-13-2010

Weather: Clear, cold (22°F)

1100 Oversee CRA (Evan Varnes)

collect surface soil sample
at location SS101 in Area 1.
SulTRAC will collect a split soil
sample at this location. CRA
will be collecting their lab

1135

Collect soil samples after CRA
composited soil from 0-2'
at SS101. Soil is brown medium sand

1145

Take samples to Kinsti Post location

1215

Leave site to process samples.

~~End of Oversight
Lucy Roach Activities for
01-13-10~~

5

Allied-Plainwell

01-18-10

Weather: Overcast, cold (31°F)

0800 SulTRAC (T. Koach, R. Kondrak)

arrive on site and prepare for
day. CRA staff already on
site.

0830

Tailgate health and safety
meeting is conducted. Corey
Bandy informed us that
she will be drilling in
Area 1. I will oversee
her crew and Rob Kondrak
will oversee the other
crew that must finish
the VAS. ^{PKK}

0930

Begin drilling at SB140 in
Area 1. Medium coarse sand,
brown 0-6", brown silty fine
sand 6-18" with few gravel;
2" black silty sand, reddish
brown silty fine sand 20-32"
(3-4' kg), dark reddish
brown silty fine sand 4-10",
black silty fine sand with
few pebbles 10-20"

6 Allied - Plainwell 1-18-10
CRA Collects a bag of material
from each 5' interval to field
scan with a PID.

1000 Corrie Bandy (CRA) collects
soil sample from 0-1' bgs
1005 CRA collects soil sample from
8-10'
1010 CRA collects a duplicate soil
sample from 8-10'
1015 Brian Malone replaces me
on soil boring and split
sampling oversight.

1043 Soil boring SB-121 offset to the
northeast due to utilities and tree
roots in the area of the proposed
location. New location still within the
indicated footprint of the lagoon.

1045 CRA advancing SB-108. Current interval
10-15' bgs. SUTRAC will collect split
sample from this location — BM

1100 CRA indicated no sledge evidenced in
SB-110 or SB-108. SUTRAC did not
observe sledge in SB-108. — BM

1115 PID readings = 14-16 = .7 ppb. Rest
of intervals = D.U. — BM

7 Allied - Plainwell 1-18-10
1118 SUTRAC will split sample
S-SS-56394-CB-011810-057,
interval 6.5-8.5. — BM

1125 CRA and SUTRAC collect
collect S-SS-56394-CB-011810-057.

1135 CRA breaks for lunch — BM

1215 CRA back onsite to resume soil
borings. — BM

1225 CRA begins SB-107. — BM
0-6" Medium brown coarse sand,
non-cohesive, non-plastic. — BM
6"-1'- Light brown coarse sand, nc, up
1.5-4.5' - Medium grey sand coarse sand, to
silty sand at 3.5-4.5'. Cohesive
4.5-5' Light grey paper residual, paste-
like. — BM

5-7' Light grey paper residual with
light grey coarse sand layers. — BM
7' Light grey rock lens, limonite.
7'-10' - Black coarse sand. Non-cohesive,
non plastic — BM

10'-15' Black fine grained sand, deep to wet
at 15' nc, up. — BM
15-20 Black " " SAB. Little more
5'. — BM

Allied - Plainville

1-18-10

Backnote: SP-108 CRA collected sample from 0-1, 6.5-8.5, & 8.5-10.0

1250 CRA collects soil samples 059 @-1
060 4-5.6 561 6.5-8.5 @-2 on

1300 PID Readings: 6-8' = .9 ppm, 0-2 = .3
2-4 = .5, 4-6 = .8, 8-10 = .8, 10-12 = .6
12-14 = .6, 14-16 = 0.6, 15-20 = .5 - on

1305 CRA moves rig to SB-101 - on

1315 CRA begins advancing SB-101 - on
0-6" Dark medium reddish brown fine sand,
damp, non-cohesive, non-plastic - on

6"-5' SAB - on

5'-7.5' SAB, large rock at 7.5' - on

7.5-10.0 - Light/medium brown coarse
sand, non-cohesive, np - on

10-15' Black, coarse grained sand, non-
cohesive, np. - on

15-20 SAB, wet - on

1340 CRA to sample 0-1/62, 6.8-8.8/63,
8.8-9.5/64

PID: 0-2 = .7, 2-4 = .5, 4-6 = 0.6, 6-8 =
0.6, 8-10 = 0.6, 10-12 = 0.7, 12-14 = 0.6,
14-16 = 0.7, 16-18 = 0.7, 18-20 = 0.3

1345 SUTRAC collect split sample

S-55-56394-CB-011810-062.

Allied - Plainville

1-18-10

CRA to collect MS/MSA at 062.

1400 CRA moves to location SB-106.

1405 SUTRAC they will be
analyzing for cyanide at this
location. - on

1425 CRA begins advancing SB-106.

1445 0-6" Clay and muddy material,
light brown medium to coarse brown
sand. damp, nc, np - on

6-12" Grey, coarse sand, nc, np, damp

12-5' Medium brown coarse to fine grained
sand, damp, nc, np - on

5'-10' SAB - on

10-15' Black, coarse grained sand, damp, nc,
np. Gravel at 15' - on

15-20 Black, coarse grained sand w/ small
gravel. nc, np, wet. - on

PID Results: - on

0-2 = 0.5, 2-4 = 0.4, 4-6 = 0.4, 6-8 = 0.4,
8-10 = 0.5, 10-12 = 0.6, 12-14 = 0.4, 14-16 = 0.5
16-18 = 0.6, 18-20 = 0.7

Samples: S-50-56394-CB-01180-67

68 1510 3.5-5.5

69 1515 8-10

70 1520 8-10
NUP

Allied Plainsmill

1-18-10

1545 CRA relocation to SB-111.

1547 Pexin drilling SB-111 — Bm

0-2" topsoil — Bm

2-6" Light brown coarse sand w/ small gravel. nc, np, damp — Bm

6-12" Dark brown fine grained sand & loam, nc, np, damp — Bm

12-18" Medium brown & grey coarse gravel Sand with small angular gravel. nc, np

4' - large chunk of concrete — Bm

5-10' Coarse grained sand, nc, np — Bm

5-6' medium to dark grey — Bm

6-7' light grey, part debris — Bm

7-8' Light brown to orange brick debris

8-10' Dark grey, light grey rock @ 10'

10-15' Black coarse grained sand, nc, np, damp. Gravel 14-15' — Bm

15-20' Small gravel on 8", black, wet @ 15' — Bm

1605 PID Readings: 0-2 = 0.4, 2-4 = 0.4, 4-6 = 0.4, 6-8 = 0.6, 8-10 = 0.6, 10-12 = 0.7, 12-14 = 0.7, 14-16 = 0.6, 16-18 = 0.5, 18-20 = 0.6

Samples: 0-1 / 071, 7-9' / 072, — Bm ots

5-50-56394-CB-011810-071, — Bm

Photolog

1-18-10

#			
44/476	SB-111	location	J
45/477	SB-101	location	NE
46/478	"	"	NE
47/479	SB-106	location	
48/480	SB-106	cores	
49/481	SB-106	cores	
50/482	SB-113	location	1/19 East
51/483	"	cores	Down
52/484	SB-112	location	East
53/485	SB-112	cores	Down
54/486	SB-114	location	E
55/487	SB-114	cores	E
56/488	SB-116	location	NE
0-4" Medium brown topsoil & vegetation			
4"-2.0' Medium brown coarse sand, damp, <u>nc, np</u>			
2.0-5.0' Medium brown coarse sand with rock layers at 2.5, 3.0, 4.5. <u>nc, np</u>			
5-7' - Medium grey coarse grey sand, damp, <u>nc, np</u> .			
7-8' - Mid. brown coarse sand, damp, <u>nc, np</u> .			
8-9' light brown to orangish brown fine grained sand, damp, <u>nc, np</u> <u>Bm</u>			

12

Allied. Plainwell

1/18/10

072, 073. BM
 105 SUTRAC collect sample from 7-9',
 072. BM
 1645 SUTRAC depart site. — BM

[Handwritten signature]
 1-18-10

13

Plainwell - Allied Tuesday 1-19-10

0750 SUTRAC onsite. — BM

0827 CRA begins advancing SB-113.

SB-113

0-6: 0-2 - topsoil & woody material
 2-6" - Med. brown coarse grained
 sand, damp, nc, np

6"-5' - Med. brown coarse grained sand,
 damp, nc, np. Light gray layer at 4'.

5'-9' Medium brown coarse grained
 sand, damp, nc, np.

9' - Dark gray clayey layer, cohesive

12-15' Black coarse grained sand, damp, nc,
 np.

15-20' SAG, wet.

0907 Re-trip down to 5-10' has
 evidence of clay & paper residue
 from 8-10'. — BM

PA: 0-2 = .8, 2-4 = .9, 4-6 = .7, 6-8 = .5,

8-10 = .9, 10-12 = 1.0, 12-14 = .9, 14-16 =

0.4, 16-18 = 0.8, 18-20 = 0.5 — BM

SAMPLES: 0-1 = 073 @ 0905

8-10 = 074 @ 0910

0927 CRA begins advancing SB-112

0-4" - Topsoil, woody material

4"-3.5" - Medium brown coarse grained

Plainville - Allid

1-17-10

sand, damp, nc, np. — BM
 3.5-5' - Light to medium gray coarse
 grained sand of silt and paper residual.
 5-9' - Light gray paper residual, damp
 9-15' - Black coarse grained sand, damp
 nc, np — BM
 PID: 0-2 = 0.5, 2-4 = 0.5, 4-6 = 3.2, 6-8 = 10.1,
 8-10 = 2.3, 10-12 = 0.7, 12-14 = 0.5, 14-16 =

Samples: ~~076-0-1 DUP~~ 075-0-1

077-6-8

076-0-1 DUP (CRA)

SULTRAC 077 6-8 0950

077 DUP 6-8 ↓

1040 CRA complete boring SB-112

1035 CRA begins advancing SB-114

1050 SB-114 — BM

0-5' Medium brown coarse grained sand
 with local, nc, np, damp — BM

5-7' SAB, with concrete chunks — BM

7-7.5' Black coarse grained sand, nc, np damp

7.5-10' white-light gray paper residuals, damp
 cohesive, strong odor

10-12' Medium brown coarse grained sand, nc,
 np, damp — BM

12-15' Black coarse grained sand, nc, np

Plainville - Allid

1-19-10

15-20 SAB, wet.

PID Readings

0-2 = .5

10-12 = .9

2-4 = .1

12-14 = .8

4-6 = .6

14-16 = .9

6-8 = 2.3

16-18 = 1.0

8-10 = 3.7

18-20 = 1.4

CRA SAMPLES: 078 0-1 1110

079 8-10 1115

1135 CRA break for lunch. — BM

1220 CRA moves to SB-116

SB-116 — BM

0-4" Med. brown topsoil & vegetation

4"-2.0' - Med. brown coarse sand,

damp, nc, np — BM

2-5' - Med. brown coarse sand w/
 rock layers at 2.5, 3.0 & 4.5', nc, np

5-7' - Medium gray coarse grained sand
 damp, nc, np. — BM

7-8' - Med. brown coarse sand,
 damp, nc, np. — BM

8-9' Light brown to orangish brown
 fine grained sand, damp, nc, np

9-10' Med. orangish brown coarse sand,
 damp, nc, np. — BM

Plainville - Allied

1-19-10

10-15 Black, coarse grained sand, nc, up
 15-20 Black coarse grained sand & gravel, nc, up

PID Results

0-2 = 0.6

2-4 = 1.2

4-6 = 1.2

6-8 = 0.8

8-10 = 0.8

10-12 = 0.5

12-14 = 0.5

14-16 = 0.7

16-18 = 0.8

18-20 = 0.6

CRA Samples

1250 OBO 0-1'

1255 OBI 7-9'

1300 OBA 9.5-10'

SulTRAC sample

1250 S-50-56394-CB-011910-OBI

1315 CRA advancing SB-117

0-1" T. soil, vegetation

1"-4.5' Medium brown coarse sand, damp,

nc, up

4.5-5.0- Dark grey to black coarse sand
with clay, coarse, up5.0-7.0- Med. brown coarse sand with
small gravel, damp, nc, up7.0-9.0- Medium grey coarse sand with
gravel to 3". Damp, nc, up

9-10'. Medium brown coarse gravel on

Plainville - Allied

1-19-10

sand with little clay and gravel, damp
 nc, up.

10-15 Black coarse grained sand, damp, nc, up

15-20 S&B w pea size gravel. - ~~from~~ ~~air~~

PID Readings

0-2 = 0.2

2-4 = 0.7

4-6 = 0.3

6-8 = 0.7

8-10 = 0.8

10-12 = 0.1

12-14 = 0.1

14-16 = 0.1

16-18 = 0.2

18-20 = 0.2

CRA Samples:

0-1 OBI

8-10 OBI

ms/msb 1410

1415

1415 Location of SB-117 was off,
 set 4' east due to underground
 utilities.

1435 CRA move to location SB-117.

1450 CRA encountering refusal between
 3-5'. Third attempt will offset north.

PID Results

0-2 0.5

2-4 0.2

4-6 0.8

6-8 0.8

8-10 1.5

10-12 0.3

12-14 0.4

14-16 0.9

16-18

18-20

Plannell-Allid

1-19-10

CRA SAMPLES:

085 0-1 087 2-9 am 1520, 1530

086 3-5 088 9-10 1535, 1535

SULTRAC sample: ~~~~~ am

1520 5-30-56394-CB-011910-086

1545 CRA move to location SB-119

SB-119

0-4" - Dark brown topsoil & vegetation,

damp, nc, np

4"-5" Medium brown coarse sand w/
small gravel, noncohes, np, damp

5"-7.5" - SAb

7.5"-8.5" Dark grey clay and small
gravel, damp, cohesive, np8.5"-10" Med. brown clay with coarse
sand and gravel, damp, cohesive, np10"-12" Med. brown coarse sand w/ small
gravel, damp, nc, np12"-15" Medium brown small gravel
with coarse sand and gravel.

Moist, nc, np.

15"-19" Dark grey small gravel w/

Cuc. sand, wet, nc, np

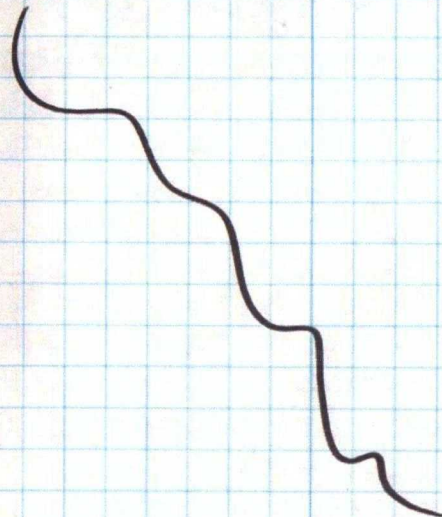
19"-20" SAb, brown sand

Bz

Photology

1-17-10

#	Desc.	Direction
49457	Location SB-117	S
49458	Cores SB-117	Down, E
49459	Offset location SB-117	NE
49460	Location SB-115	NW
49461	Cores SB-115	Down, SW
49462	Location SB-119	NW
49463	Cores SB-119	NW, down



Zell

Plainville - Allied 1-19-10
 CRA Samples: 089 0-1 1620
 090 8-10 1625
 SUTRAC
 S-50-56394-011910-CB-090
 PID JB-119
 0-2 0.1 10-12 0.4
 2-4 0.5 12-14 1.1
 4-6 0.8 14-16 1.4
 6-8 0.4 16-18 1.6
 8-10 0.8 18-20 1.9
 1645 CRA completes soil borings.
 1655 Sutracs depart the site.

Ball
 1-19-10

Plainville - Allied 1-20-10
 0750 SUTRAC depart hotel for site.
 0759 SUTRAC onsite. CRA prepping for days work.
 0826 SUTRAC & CRA move to boring locations.
 0900 CRA advancing boring SB-144.
 0940 SB-144
 0-3" Topsoil, dark brown, damp
 3"-4" Fine grained sand with clay and gravel, medium brown, damp, no rmp
 4-5' Coarse grained sand w/ small gravel, medium brown, damp, no rmp
 5-10 Medium brown coarse grained sand and gravel, damp, ac, np
 10-15 Medium brown gravel with coarse grained sand, damp to moist, ac, np
 15-20 SSB cut wet.
 PID Results
 0-2 = 0.7 10-12 = 0.4
 2-4 = 0.9 12-14 = 0.6
 4-6 = 0.5 14-16 = 0.2
 6-8 = 0.8 16-18 = 0.8
 8-10 = 0.5 18-20 = 0.7
 CRA SAMPLES: 090 @ 1000 0-1'
 091 @ 1005 7-9'

22
Plainsville - Allied

1-20-10

093 @ 1010 7-9 (NVD)

1020 LRA moved to location SB-145
and begin advancing boring. BM

SB-145

0-4" Dark brown topsoil and fine
grained sand, damp, NC, NP

4-11.5' - Orange brown fine grained sand,
damp, NC, NP

5-7' - SAB

7-10' - SAB with gravel

10-15' - Coarse grained sand and gravel,
med. brown, moist, NC, NP

15-20' - Poorly sorted gravel with
medium brown coarse sand, wet,
NC, NP

P10 results

0-2 = 0.1 10-12 = 0.8

2-4 = 0.5 12-14 = 0.5

4-6 = 0.5 14-16 = 0.5

6-8 = 0.6 16-18 = 0.6

8-10 = 0.6 18-20 = 0.4

Cart samples

094 0-1' 1100

095 7.5-9.5' 1105

Subtract: S-SB-56344-CB-012010-094

Photology

23

#	Dir.	Direction
496-64	SB-144 location	E
497-65	SB-144 core	Down
66/67	SB-143 location	NE
68	SB-143 core	Down
69	SB-142 location	S
70	SB-142 core	Down
71	SB-102 location	W
72	Geoprobe set-up @ SB-102, NW	
73	SB-102 core	Down
74	SB-118 location	E
75	SB-118 core	Down
76	SB-103 location	E
77	SB-103 core	Down

Plainville - Allied 1-20-10
SULTRAC sample 094 collected at
1050

1130 CAA begins advancing SB-143
0-6" Dark brown topsoil, damp, nc, np
6"-4.5' - Medium brown to orangish brown
fine grained sand, damp, nc, np — BM
4.5-5.0' - Medium brown coarse grained sand
and gravel to 2", damp, nc, np — BM
5-10' Light brown coarse sand with
gravel, nc, np, damp. — BM
10-15' Medium brown coarse grained sand
and gravel, moist, nc, np — BM
15-20' SAB, wet — BM
PID Results

0-2 = 0.8	10-12 = 0.6
2-4 = 0.8	12-14 = 0.6
4-6 = 0.9	14-16 = 0.6
6-8 = 0.9	16-18 = 0.5
8-10 = 0.7	18-20 = 0.7

CERT SAMPLES: 096 0-1 1200
097 8-10 1205

1210 CAA breaks for lunch — BM
1240 CAA begins relocating rig to
location SB-142. — BM

1315 CAA begins advancing SB-142

Plainville - Allied 1-20-10
SB-142

0-4" Dark brown topsoil, damp, nc, np
4"-5' Medium brown coarse sand, damp,
nc, np — little recovery less 20%.
5-10' Light brown coarse sand w/
gravel, some gravel to 1" Damp, nc, np
9-10' Light brown gravel with coarse
sand, damp, nc, np
10-15' Same as above but orangish
brown — BM

PID RESULTS

0-2 = 0.0	12-14 = 0.1
2-4 = 0.1	14-16 = 0.1
4-6 = 0.0	16-18 = 0.2
6-8 = 0.2	18-20 = 0.3
8-10 = 0.3	
10-12 = 0.2	

CERT SAMPLES: 098 0-1
099 8.5-10.5

SULTRAC samples — BM

5-50-56391-CB-012010-099 1350
1400 CAA to location SB-102.

Stake was removed so location

Plainwell - Allied 1/20/10
 was field located in reference
 to SB-114. Location identified is
 approximately 30' N/NE of SB-114.
 14/5 SB-103

0-1 Topsoil

1-5 Fine grained sand, medium brown,
 with trace gravel and paper rendered

~~5-10 fine grained sand of trace clay & silts, wet, pop black~~ tot and on

5-10 ~~4.5~~ Fine grained sand, medium brown to
 orangish brown, rock at 11', quartz d
 id.

10-12 Fine grained medium brown sand,
 damp, nc, np.

12-15 Black, coarse grained sand, damp,
 nc, np.

15-20 SAB, wet.

PID Results

0-2 = 0.2 10-12 = 0.5

2-4 = 0.2 12-14 = 0.2

4-6 = 0.3 14-16 = 0.4

6-8 = 0.4 16-18 = 0.2

8-10 = 0.2 18-20 = 0.2

CRA SAMPLES: 100 0-1 1430

tot sm 101 8-10 1435

Plainwell - Allied 1-20-10
 1515 SB-118

0-2" Dark brown topsoil

2"-5' orangish brown fine grained
 sand, damp, nc, np

5-6' SAB, light orangish brown

6-10' Medium brown fine grained
 sand w/ trace gravel, damp, nc, np

10-14.5 - Black coarse sand w/ trace
 gravel, nc, np, moist

14.5-15 - Medium brown coarse sand
 wet, nc, np

15-15.5' Medium brown gravel with
 coarse sand, wet, nc, np

15.5-20 SAB but black

PID RESULTS

0-2 = 0.5

10-12 = 0.3

2-4 = 0.5

12-14 = 0.1

4-6 = 0.6

14-16 = 0.2

6-8 = 0.5

16-18 = 0.1

8-10 = 0.2

18-20 = 0.1

CRA SAMPLES: 102 0-1 1545

1550 103 8-10 on 7.5-9.5

1600 CRA move to location SB-103

1663 Begin advancing SB-103

0-2" Dark brown topsoil, damp, nc, np

Allied - Plasmell

1/20/10

20-51 Medium brown fine grained sand
with trace coarse sand. Trace gravel.

Damp, ne, up

5-10 SAB, dark brown from 7-8' - on

10-15 Black coarse gravel of coarse sand, damp, ne, up

15-20 SAB but medium brown color

PID Readings

0-2 = 0.4

10-12 = 2.0

2-4 = 0.6

12-14 = 2.2

4-6 = 1.0

14-16 = 1.8

6-8 = 1.6

16-18 = 2.4

8-10 = 2.2

18-20 = 2.9

CRA Samples: 104-0-1' - 1640

105-7-9' - 1645

SulTRAC Sample: 5-SU-56394-CS-012010-105

taken at 1630 from 7-9' - on

1645 LAR & SulTRAC complete soil

borings for the day - on

1653 SulTRAC begin entering data
to excel spreadsheet from day
activities - on1700 SulTRAC depart site, data
will be entered at hotel - on

BNV

Plasmell - Allied

1-21-10

0755 SulTRAC onsite. Pick-up jars
for sampling. - on0810 SulTRAC by AM CRA advancing
SD-120. - on0-1 Light brown coarse grained sand,
damp, ne, up1-2 Medium brown to black coarse
grained sand damp, ne, up2-5 Light brown coarse grained sand,
damp, ne, up - on

5-10 SAB - on

10-15 SAB - on

15-20 Dark grey gravel and coarse
sand, wet, ne, up. Brown 19-20' - on

PID Results

0-2 = 1.2

10-12 = 0.8

2-4 = 0.9

12-14 = 0.5

4-6 = 0.6

14-16 = 0.5

6-8 = 0.3

16-18 = 0.6

8-10 = 0.7

18-20 = 0.5

CRA SAMPLES: 090-0-1 (DUP)

107-7.75-9.75-0910, DHP 0915 (106)

SulTRAC 5-SU-56394-CS-012110-

107, 0900

Plainville - Allid

1-21-10

0950 CRA begin advancing SB-104.

0-2' Medium brown coarse sand and topsoil, damp, nc, np

2-5' Black fine grained sand with trace clay. Brick frag at 4'. Colerick np, damp

5-7' Black coarse grained sand, damp, nc, np.

7-10 Drabish brown fine grained sand, damp, nc, np. 1" cobble at 10' - da

10-15 NO SHOWING

15-20 Medium brown coarse sand and gravel, wet, nc, np
PID Results

0-2 = 0.3

10-12 = 0.5

2-4 = 0.4

12-14 = 0.7

4-6 = 0.4

14-16 = 0.9

6-8 = 0.3

16-18 = 0.6

8-10 = 0.4

18-20 = 0.5

CRA Samples:

109 = 0-1'

Collecting Cyanide on all @ 0950

110 = 3-5'

ms/msd @ 0955

111 = 5-7'

@ 1000

112 = 8-11'

@ 1005

SULTRAL sample 109 1000

Photology

1-21-10

#	Desc	Direction
78	Location SB-120	N
79	" " SB-104	N
80	Geoprobe cores SB-104	N/down
81	Location SB-122	SW
82	Cores SB-122	Down, N
83	Location SB-124	N
84	Cores SB-124	Down
85	Location SB-126	E
86	Cores SB-126	Down
87	Location SB-105	E
88	Cores SB-105	E
89	Location SB-128	E
90	Cores SB-128	Down

85d 86 Photos of leaking VOC containers. Lid not tightened when shipped from container company.

Plannell-Allied

1-21-10

1045 CRA begins SB-122 — onSB-122 — on0-4" Med. brown topsoil w/ vegetation,
damp, cohesive, non-plastic

4"-2' Medium brown coarse sand

w/ small gravel, nc, np

2-4' Black fine grained sand, damp
nc, np — on4-5' Light gray coarse grained sand,
damp, nc, np — on5-7' Med. brown coarse grained sand
with gravel, damp, nc, np — on7-10' Med. brown fine grained
sand with small cobbles at 9.5',
damp, nc, np. — on10-12 Med. brown coarse sand with
trace clay, moist, cohesive, np.12-15' Black coarse gravel with
coarse grained sand. Wet, nc, np15-20' S&B — on
DID REMARKS — on

0-2 = 0.6 8-10 = 0.7 16-18 = 0.3

2-4 = 0.5 10-12 = 0.6 18-20 = 0.5

4-6 = 0.6 12-14 = 0.5

6-8 = 0.4 14-16 = 0.4

Plannell-Allied

1/24/00

CRA Samples: 113 0-1 1120

114 8-10

1125

SUTRAL Samples: — on

1120/5-20-52394-CB-012110-114

1140 CRA & SUTRAL break for lunch

1225 CRA begins advancing SB-124.

0-6 Topsoil (Med. brown, cohesive, np)

6"-2.5' - Medium brown coarse sand w/

little gravel, damp, nc, np — on

2.5-4.5' Black coarse sand with

gravel, damp, nc, np — on

4.5 Limestone rock layer, 2" thick

4.6-5.0' Med. brown coarse sand with

gravel, damp, nc, np — on

5-6 Med. coarse grained sand with few

pieces of gravel, damp, nc, np — on

6-8 Black coarse grained sand with

few gravel pieces, damp, nc, np. Quarts

at 7.5' — on

8-10 Med brown fine grained sand with

little gravel, damp, nc, np. Paper resid

at 9.0' — on

10-14 Black, coarse grained sand, moist,

paper residuals at 11'.

17.5 Clay layer, gray, damp, cohesive

Plainville-Allicd

1-21-10

plastic

12.5-15 Black gravel with little
c.g. sand. Moist, nc, up — on
15-20 SAB, medium brown from 17'
to 20'. — on

PID RESULTS

0-2 = 1.2	16-12 = 1.2
2-4 = 1.4	12-14 = 0.7
4-6 = 0.9	14-16 = 0.9
6-8 = 1.3	16-18 = 0.8
8-10 = 0.4	18-20 = 1.0

CRA SAMPLES: 115 0-1' 1315

116 7-9' 1320

SULTRAC: 5-50-56344-CB-012110-116 1310

1350 SB-126

0-6" Topsoil with fine grained sand,
damp, medium brown — on6"-2.5" Medium brown f. sand w
trace clay and gravel, damp, slightly
cohesive, np. — on2.5-4.5" Light grey rock and fine
grained sand, dry, nc, np. — on4.5-5.5" Dark grey clay, damp, coh,
np — on

5.5-6.5" Light grey coarse

Plainville-Allicd

1-21-10

grained sand, rock at 6.5'

6.5-10' - Dark grey clay with little
fine grained sand, coh, plastic — on
10-12 SAB, 12-15: black gravel
with fine grained sand, wet, nc, up
15-20 SAB (12-15) — on

PID Results

0-2 = 0.8	10-12 = 0.7
2-4 = 0.8	12-14 = 1.2
4-6 = 0.8	14-16 = 0.6
6-8 = 1.2	16-18 = 0.7
8-10 = 1.2	18-20 = 1.0

CRA SAMPLES: 117 0-1' 1415

118 7.5-9.5 1420

SULTRAC: 5-50-56344-CB-012110-118 1410

1410

1450 Medium brown to grey — on
SB-105 — on0-6" Medium brown to grey f.s.
sand with trace clay, damp, nc, np. — on6"-1.5" Grey coarse sand w/ small
gravel, damp, nc, np — on1.5-6" Orangeish brown fine grained
sand, damp, nc, np. — on

Plainville - Allied

1-21-10

6'- $\frac{1}{2}$ " grey clay layer, cohesive, plastic damp. BM6.5-10' - Light brown f.g. sand w/ limestone @ 10'. BM10-12.5 - Medium to light brown f.g. sand w/ gravel and trace clay, moist, nc, np. BM

12.5-15' Med. brown gravel and coarse grained sand, wet, nc, np.

15-20 Gravel with little dark grained sand, wet, nc, np. BMPID RESULTS

0-2 = 0.6

10-12 = 0.4

2-4 = 0.8

12-14 = 0.2

4-6 = 0.6

14-16 = 0.7

6-8 = 0.7

16-18 = 0.8

8-10 = 0.5

18-20 = 0.7

CRA SAMPLES: 119 0-1' @ 1520

120 1-3' @ 1525 121 3-5' @ 1530

122 8-10' @ 1535 123 3-5' DUP @ 1540

1540 CRA begins documenting SB-128.

0-4" Topsoil & woody material, damp, slightly cohesive. BM

4"-5' Medium brown coarse grained sand w/ small gravel, damp, nc, np

Plainville - Allied

1-21-10

5-10' Light brown coarse grained sand, damp, nc, np. BM10-12.5 - SAB BM12.5 Grey fine grained sand w/ trace clay, damp, cohesive, np. BM13-13.5' Dark brown fine grained sand, damp, nc, np. BM13.5 Grey to black fine grained sand, damp, nc, np. BM

14-15' Med. brown coarse grained sand and gravel, damp, nc, np.

15-20 Black poorly sorted gravel with coarse grained sand, wet, nc, np. BMPID RESULTS

0-2 = 0.6

10-12 = 1.0

2-4 = 0.5

12-14 = 0.6

4-6 = 0.8

14-16 = 1.0

6-8 = 0.6

16-18 = 0.8

8-10 = 0.8

18-20 = 0.6

CRA SAMPLES: 124 0-1' @ 1615

125 11.5-13.5' @ 1620

1710 SUTRAC Malone complete data entry and turn over logbook to SUTRAC Kendrick.

APPENDIX C
FIELD SAMPLE LOG
(Six Sheets)

SUBSURFACE SOIL SAMPLES										
SAMPLE LOCATION	SAMPLER	SAMPLE ID	DATE	INTERVAL, FT	SAMPLE TIME	Field Duplicates or MS/MSD	CRA sample count	SulTRAC sample count	SulTRAC Duplicate Count	SulTRAC MS/MSD count
SB-307	CRA	SO-56395-CB-011410-049	1/14/2010	6-8	1410	Duplicate				
SB-307	CRA	SO-56395-CB-011410-050	1/14/2010	8-10	1415		1			
VA-1	CRA	SO-56394-CB-011310-1010	1/13/2010	0-2	1315		1			
VA-1	CRA	SO-56394-CB-011310-1011	1/13/2010	8-10	1325		1			
VA-1	SulTRAC	S-SO-56394-CB-011310-1011	1/13/2010	8-10	1325			1		
SB-110	CRA	SO-56394-CB-011810-053	1/18/2010	0-1	1000		1			
SB-110	CRA	SO-56394-CB-011810-054	1/18/2010	8-10	1005		1			
SB-110	CRA	SO-56394-CB-011810-055	1/18/2010	8-10	1010	Duplicate				
SB-108	CRA	SO-56394-CB-011810-056	1/18/2010	0-1	1115		1			
SB-108	CRA	SO-56394-CB-011810-057	1/18/2010	6.5-8.5	1120		1			
SB-108	CRA	SO-56394-CB-011810-058	1/18/2010	8.5-10.0	1125		1			
SB-108	SulTRAC	S-SO-56394-CB-011810-057	1/18/2010	6.5-8.5	1125			1		
SB-107	CRA	SO-56394-CB-011810-059	1/18/2010	0-1	1300		1			
SB-107	CRA	SO-56394-CB-011810-060	1/18/2010	6.5-8.5	1305		1			
SB-107	CRA	SO-56394-CB-011810-061	1/18/2010	8.5-10.0	1310		1			
SB-101	CRA	SO-56394-CB-011810-062	1/18/2010	0-1	1345	MS/MSD	1			
SB-101	CRA	SO-56394-CB-011810-063	1/18/2010	6.8-8.8	1350		1			
SB-101	CRA	SO-56394-CB-011810-064	1/18/2010	8.8-9.5	1355		1			
SB-101	SulTRAC	S-SO-56394-CB-011810-062	1/18/2010	0-1	1345			1		
SB-106	CRA	SO-56394-CB-011810-067	1/18/2010	0-1	1505		1			
SB-106	CRA	SO-56394-CB-011810-068	1/18/2010	3.5-5.5	1510		1			
SB-106	CRA	SO-56394-CB-011810-069	1/18/2010	8-10	1515		1			
SB-106	CRA	SO-56394-CB-011810-070	1/18/2010	8-10	1520	Duplicate				
SB-111	CRA	SO-56394-CB-011810-071	1/18/2010	0-1	1605		1			
SB-111	CRA	SO-56394-CB-011810-072	1/18/2010	7-9	1605		1			
SB-111	SulTRAC	S-SO-56394-CB-011810-071	1/18/2010	0-1	1605			1		
SB-308	CRA	SO-56394-DR-011810-1020	1/18/2010	0-2	1410		1			
SB-308	CRA	SO-56394-DR-011810-1021	1/18/2010	3-5	1415		1			
SB-308	CRA	SO-56394-DR-011810-1022	1/18/2010	7.5-9.5	1420		1			

SUBSURFACE SOIL SAMPLES continued										
SAMPLE LOCATION	SAMPLER	SAMPLE ID	DATE	INTERVAL, FT	SAMPLE TIME	Field Duplicates or MS/MSD	CRA sample count	SulTRAC sample count	SulTRAC Duplicate Count	SulTRAC MS/MSD count
Test Pit 201	CRA	SO-56394-DR-011910-1024	1/19/2010	8-10	1130		1			
Test Pit 201	SulTRAC	S-SO-56394-DR-011910-1024	1/19/2010	8-10	1130			1		
Test Pit 202	CRA	SO-56394-DR-011910-1025	1/19/2010	1-2	1330		1			
Test Pit 202	CRA	SO-56394-DR-011910-1026	1/19/2010	1-2	1335	Duplicate				
Test Pit 202	CRA	SO-56394-DR-011910-1027	1/19/2010	8-10	1340		1			
SB-113	CRA	SO-56394-CB-011910-073	1/19/2010	0-1	905		1			
SB-113	CRA	SO-56394-CB-011910-074	1/19/2010	8-10	910		1			
SB-112	CRA	SO-56394-CB-011910-075	1/19/2010	0-1	950		1			
SB-112	CRA	SO-56394-CB-011910-076	1/19/2010	0-1	950	Duplicate				
SB-112	CRA	SO-56394-CB-011910-077	1/19/2010	6-8	950		1			
SB-112	SulTRAC	S-SO-56394-CB-011910-077	1/19/2010	6-8	950			1		
SB-112	SulTRAC	SD-SO-56394-CB-011910-077	1/19/2010	6-8	950	Duplicate			1	
SB-114	CRA	SO-56394-CB-011910-078	1/19/2010	0-1	1110		1			
SB-114	CRA	SO-56394-CB-011910-079	1/19/2010	8-10	1115		1			
SB-116	CRA	SO-56394-CB-011910-080	1/19/2010	0-1	1250		1			
SB-116	CRA	SO-56394-CB-011910-081	1/19/2010	7-9	1255		1			
SB-116	SulTRAC	S-SO-56394-CB-011910-081	1/19/2010	7-9	1255			1		
SB-116	CRA	SO-56394-CB-011910-082	1/19/2010	9.5-10	1300		1			
SB-117	CRA	SO-56394-CB-011910-083	1/19/2010	0-1	1410	MS/MSD	1			
SB-117	CRA	SO-56394-CB-011910-084	1/19/2010	8-10	1415		1			
SB-115	CRA	SO-56394-CB-011910-085	1/19/2010	0-1	1520		1			
SB-115	CRA	SO-56394-CB-011910-086	1/19/2010	3-5	1525		1			
SB-115	SulTRAC	S-SO-56394-CB-011910-086	1/19/2010	3-5	1525			1		
SB-115	CRA	SO-56394-CB-011910-087	1/19/2010	5-7	1530		1			
SB-115	CRA	SO-56394-CB-011910-088	1/19/2010	9-10	1535		1			
SB-119	CRA	SO-56394-CB-011910-089	1/19/2010	0-1	1620		1			
SB-119	CRA	SO-56394-CB-011910-090	1/19/2010	8-10	1625		1			
SB-119	SulTRAC	S-SO-56394-CB-011910-090	1/19/2010	8-10	1625			1		
Test Pit 203	CRA	SO-56394-DR-011910-1031	1/20/2010	0.5-1.5	845		1			
Test Pit 203	SulTRAC	S-SO-56394-DR-011910-1031	1/20/2010	0.5-1.5	845			1		
Test Pit 203	CRA	SO-56394-DR-011910-1032	1/20/2010	2-4	900		1			
Test Pit 203	CRA	SO-56394-DR-011910-1033	1/20/2010	8-10	925		1			

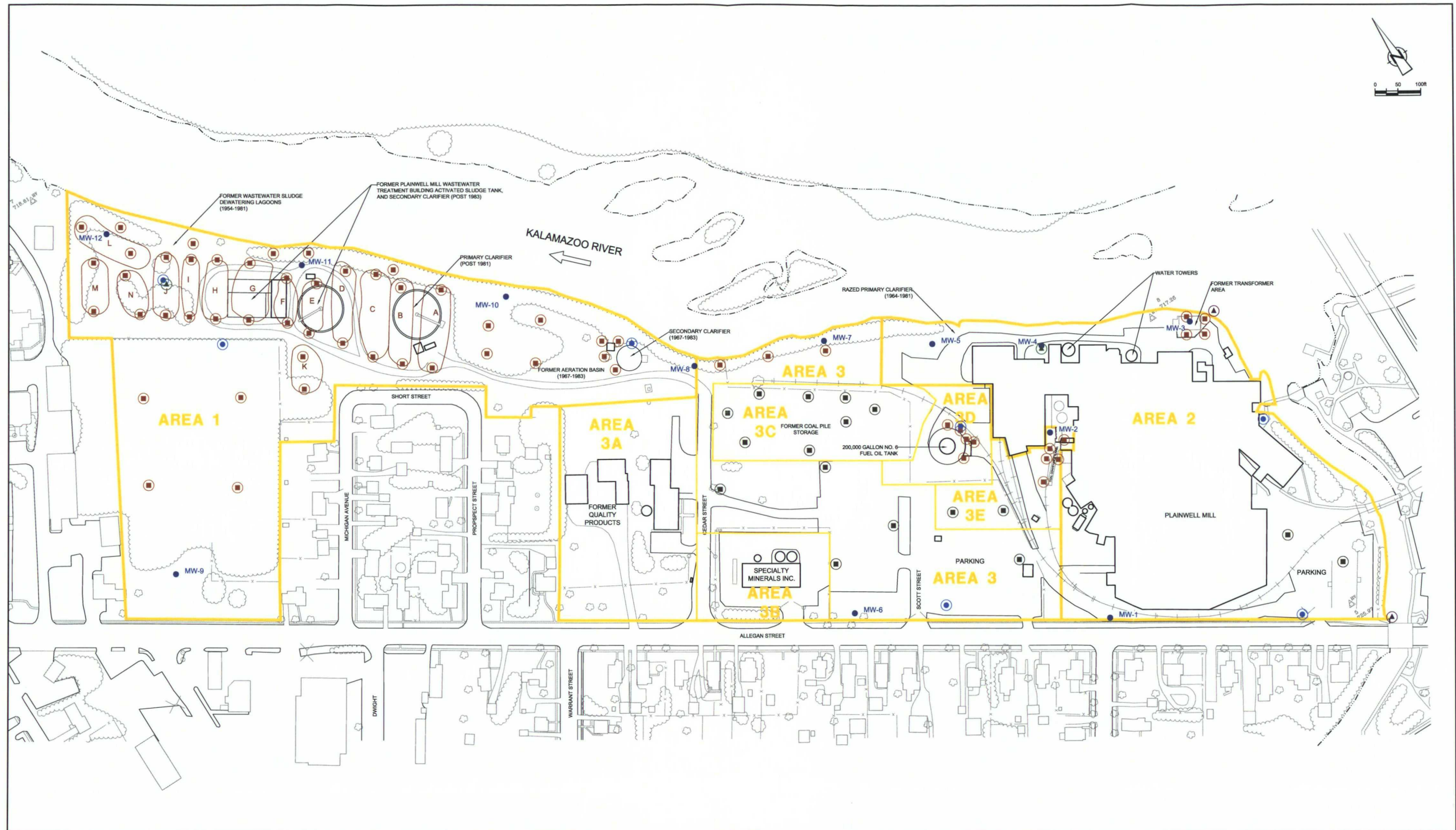
SUBSURFACE SOIL SAMPLES continued										
SAMPLE LOCATION	SAMPLER	SAMPLE ID	DATE	INTERVAL, FT	SAMPLE TIME	Field Duplicates or MS/MSD	CRA sample count	SulTRAC sample count	SulTRAC Duplicate Count	SulTRAC MS/MSD count
Test Pit 301	CRA	SO-56394-DR-011910-1034	1/20/2010	0-1	1135		1			
Test Pit 301	CRA	SO-56394-DR-011910-1035	1/20/2010	6-8	1210		1			
Test Pit 301	SulTRAC	S-SO-56394-DR-011910-1035	1/20/2010	6-8	1210			1		
Test Pit 301	CRA	SO-56394-DR-011910-1036	1/20/2010	8-10	1225		1			
Test Pit 302	CRA	SO-56394-DR-011910-1037	1/20/2010	0.5-1.5	1345		1			
Test Pit 302	CRA	SO-56394-DR-011910-1038	1/20/2010	4-6	1400		1			
Test Pit 302	SulTRAC	S-SO-56394-DR-011910-1038	1/20/2010	4-6	1400			1		
Test Pit 302	CRA	SO-56394-DR-011910-1039	1/20/2010	10-11	1425		1			
Test Pit 306	CRA	SO-56394-DR-011910-1041	1/20/2010	0.5-1.5	1515		1			
Test Pit 306	CRA	SO-56394-DR-011910-1042	1/20/2010	6-7	1535		1			
Test Pit 306	CRA	SO-56394-DR-011910-1043	1/20/2010	6-7	1540	Duplicate				
SB-144	CRA	SO-56394-CB-012010-092	1/20/2010	0-1	1000		1			
SB-144	CRA	SO-56394-CB-012010-093	1/20/2010	7-9	1005		1			
SB-144	CRA	SO-56394-CB-012010-093	1/20/2010	7-9	1005	Duplicate				
SB-145	CRA	SO-56394-CB-012010-094	1/20/2010	0-1	1100		1			
SB-145	CRA	SO-56394-CB-012010-095	1/20/2010	7.5-9.5	1105		1			
SB-145	SulTRAC	S-SO-56394-CB-012010-094	1/20/2010	0-1	1100			1		
SB-143	CRA	SO-56394-CB-012010-096	1/20/2010	0-1	1200		1			
SB-143	CRA	SO-56394-CB-012010-097	1/20/2010	8-10	1205		1			
SB-142	CRA	SO-56394-CB-012010-098	1/20/2010	0-1	1355		1			
SB-142	CRA	SO-56394-CB-012010-099	1/20/2010	8.5-10.5	1400		1			
SB-142	SulTRAC	S-SO-56394-CB-012010-099	1/20/2010	8.5-10.5	1350			1		
SB-102	CRA	SO-56394-CB-012010-100	1/20/2010	0-1	1430		1			
SB-102	CRA	SO-56394-CB-012010-101	1/20/2010	8-10	1435		1			
SB-118	CRA	SO-56394-CB-012010-102	1/20/2010	0-1	1545		1			
SB-118	CRA	SO-56394-CB-012010-103	1/20/2010	7.5-9.5	1550		1			
SB-103	CRA	SO-56394-CB-012010-104	1/20/2010	0-1	1640		1			
SB-103	CRA	SO-56394-CB-012010-105	1/20/2010	7-9	1645		1			
SB-103	SulTRAC	S-SO-56394-CB-012010-105	1/20/2010	7-9	1645			1		
Test Pit 303	CRA	SO-56394-DR-012110-1044	1/21/2010	0-1	835		1			
Test Pit 303	CRA	SO-56394-DR-012110-1045	1/21/2010	6-8	855		1			
Test Pit 303	SulTRAC	S-SO-56394-DR-012110-1045	1/21/2010	6-8	855			1		1

SUBSURFACE SOIL SAMPLES continued										
SAMPLE LOCATION	SAMPLER	SAMPLE ID	DATE	INTERVAL, FT	SAMPLE TIME	Field Duplicates or MS/MSD	CRA sample count	SulTRAC sample count	SulTRAC Duplicate Count	SulTRAC MS/MSD count
Test Pit 307	CRA	SO-56394-DR-012110-1046	1/21/2010	0.5-1.5	1020		1			
Test Pit 307	CRA	SO-56394-DR-012110-1047	1/21/2010	0.5-1.5	1025	Duplicate				
Test Pit 307	CRA	SO-56394-DR-012110-1048	1/21/2010	8-10	1045		1			
Test Pit 307	CRA	SO-56394-DR-012110-1049	1/21/2010	2-3	1120		1			
Test Pit 307	SulTRAC	S-SO-56394-DR-012110-1049	1/21/2010	2-3	1120			1		
Test Pit 307	SulTRAC	SD-SO-56394-DR-012110-1049	1/21/2010	2-3	1125	Duplicate			1	
Test Pit 305	CRA	SO-56394-DR-012110-1050	1/21/2010	0.5-1.5	1340		1			
Test Pit 305	SulTRAC	S-SO-56394-DR-012110-1050	1/21/2010	0.5-1.5	1340			1		
Test Pit 305	CRA	SO-56394-DR-012110-1051	1/21/2010	2-4	1350	MS/MSD	1			
Test Pit 305	CRA	SO-56394-DR-012110-1052	1/21/2010	6-8	1405		1			
Test Pit 304	CRA	SO-56394-DR-012110-1053	1/21/2010	0.5-1.5	1455		1			
Test Pit 304	CRA	SO-56394-DR-012110-1054	1/21/2010	2-4	1505		1			
Test Pit 304	CRA	SO-56394-DR-012110-1055	1/21/2010	5-7	1515		1			
SB-120	CRA	SO-56394-CB-012110-106	1/21/2010	0-1	905		1			
SB-120	CRA	SO-56394-CB-012110-107	1/21/2010	7.75-9.75	910		1			
SB-120	CRA	SO-56394-CB-012010-108	1/21/2010	0-1	915	Duplicate				
SB-120	SulTRAC	S-SO-56394-CB-012110-107	1/21/2010	7.75-9.75	900			1		
SB-104	CRA	SO-56394-CB-012110-109	1/21/2010	0-1	950		1			
SB-104	CRA	SO-56394-CB-012110-110	1/21/2010	3-5	955	MS/MSD	1			
SB-104	CRA	SO-56394-CB-012110-111	1/21/2010	5-7	1000		1			
SB-104	CRA	SO-56394-CB-012110-112	1/21/2010	8-10	1005		1			
SB-104	SulTRAC	S-SO-56394-CB-012110-109	1/21/2010	0-1	1000			1		
SB-122	CRA	SO-56394-CB-012110-113	1/21/2010	0-1	1120		1			
SB-122	CRA	SO-56394-CB-012110-114	1/21/2010	8-10	1125		1			
SB-122	SulTRAC	S-SO-56394-CB-012110-114	1/21/2010	8-10	1120			1		
SB-124	CRA	SO-56394-CB-012110-115	1/21/2010	0-1	1315		1			
SB-124	CRA	SO-56394-CB-012110-116	1/21/2010	8-10	1320		1			
SB-124	SulTRAC	S-SO-56394-CB-012110-116	1/21/2010	8-10	1310			1		
SB-126	CRA	SO-56394-CB-012110-117	1/21/2010	0-1	1415		1			
SB-126	CRA	SO-56394-CB-012110-118	1/21/2010	7.5-9.5	1420		1			
SB-126	SulTRAC	S-SO-56394-CB-012110-118	1/21/2010	7.5-9.5	1410			1		
SB-105	CRA	SO-56394-CB-012110-119	1/21/2010	0-1	1520		1			
SB-105	CRA	SO-56394-CB-012110-120	1/21/2010	1-3	1525		1			
SB-105	CRA	SO-56394-CB-012110-121	1/21/2010	3-5	1530		1			
SB-105	CRA	SO-56394-CB-012110-122	1/21/2010	8-10	1535		1			
SB-128	CRA	SO-56394-CB-012110-123	1/21/2010	3-5	1540	Duplicate				
SB-128	CRA	SO-56394-CB-012110-124	1/21/2010	0-1	1615		1			
SB-128	CRA	SO-56394-CB-012110-125	1/21/2010	11.5-13.5	1620		1			
Totals							96	23	3	2

VAS SOIL SAMPLES										
SAMPLE LOCATION	SAMPLER	SAMPLE ID	DATE	INTERVAL, FT	SAMPLE TIME	Field Duplicates or MS/MSD	CRA sample count	SuITRAC sample count	SuITRAC Duplicate Count	SuITRAC MS/MSD count
VA-1	CRA	VAS-56394-DR-011110-1001	1/11/2010	10-14	1600		1			
VA-1	SuITRAC	S-VAS-56394-DR-011110-1001	1/11/2010	10-14	1600			1		
VA-1	CRA	VAS-56394-DR-011210-1002	1/12/2010	14-18	945		1			
VA-1	CRA	VAS-56394-DR-011210-1003	1/12/2010	18-22	1055		1			
VA-1	CRA	VAS-56394-DR-011210-1004	1/12/2010	18-22	1055	Duplicate				
VA-1	CRA	VAS-56394-DR-011210-1005	1/12/2010	22-26	1345		1			
VA-1	CRA	VAS-56394-DR-011210-1006	1/12/2010	26-30	1530		1			
VA-1	CRA	VAS-56394-DR-011310-1007	1/13/2010	30-34	840		1			
VA-1	CRA	VAS-56394-DR-011310-1008	1/13/2010	34-38	1010		1			
VA-1	SuITRAC	S-VAS-56394-DR-011310-1008	1/13/2010	34-38	1010			1		
VA-1	SuITRAC	SD-VAS-56394-DR-011310-1008	1/13/2010	34-38	1010	Duplicate			1	
VA-1	CRA	VAS-56394-DR-011310-1009	1/13/2010	38-42	1145		1			
VA-2	CRA	VAS-56394-DR-011310-1012	1/13/2010	6-10	1635		1			
VA-2	CRA	VAS-56394-DR-011410-1013	1/14/2010	10-14	845		1			
VA-2	SuITRAC	S-VAS-56394-DR-011410-1014	1/14/2010	10-14	845			1		
VA-2	CRA	VAS-56394-DR-011410-1014	1/14/2010	14-18	1040		1			
VA-2	CRA	VAS-56394-DR-011410-1015	1/14/2010	14-18	1040	Duplicate				
VA-2	CRA	VAS-56394-DR-011410-1016	1/14/2010	18-22	1250		1			
VA-2	CRA	VAS-56394-DR-011410-1017	1/14/2010	22-26	1400		1			
VA-2	CRA	VAS-56394-DR-011810-1018	1/18/2010	26-30	955		1			
VA-2	SuITRAC	VAS-56394-DR-011810-1018	1/18/2010	26-30	955			1		
VA-2	CRA	VAS-56394-DR-011810-1019	1/18/2010	30-32	1135		1			
Totals							15	4	1	

SURFACE WATER SAMPLES										
SAMPLE LOCATION	SAMPLER	SAMPLE ID	DATE	INTERVAL, FT	SAMPLE TIME	Field Duplicates or MS/MSD	CRA sample count	SulTRAC sample count	SulTRAC Duplicate Count	SulTRAC MS/MSD count
SW-1	EV	SW-56394-EV-011910-1028	1/19/2010				1			
SW-2	EV	SW-56394-EV-011910-1029	1/19/2010				1			
Totals							2			
SURFACE SOIL SAMPLES										
SAMPLE LOCATION	SAMPLER	SAMPLE ID	DATE	INTERVAL, FT	SAMPLE TIME	Field Duplicates or MS/MSD	CRA sample count	SulTRAC sample count	SulTRAC Duplicate Count	SulTRAC MS/MSD count
SS-105	CRA	SS-56394-EV-011210-011	1/12/2010	0-1			1			
SS-103	CRA	SS-56394-EV-011210-012	1/12/2010	0-1	1320		1			
SS-103	SulTRAC	S-SS-56394-EV-011210-012	1/12/2010	0-1	1320			1		
SS-102	CRA	SS-56394-EV-011210-013	1/12/2010	0-1	1345		1			
SS-100	CRA	SS-56394-EV-011210-010	1/12/2010	0-1	1415		1			
SS-107	CRA	SS-56394-EV-011210-015	1/12/2010	0-1	1120		1			
SS-101	CRA	SS-56394-EV-011310-021	1/13/2010	0-1	1135		1			
SS-101	SulTRAC	S-SS-56394-EV-011310-021	1/13/2010	0-1	1135			1		
SS-104	CRA	SS-56394-EV-011310-022	1/13/2010	0-1	1325		1			
SS-106	CRA	SS-56394-EV-011310-023	1/13/2010	0-1	1345		1			
SS-106	CRA	SS-56394-EV-011310-024	1/13/2010	0-1	1350	Duplicate				
Total							8	2	0	0

ATTACHMENT 1
CRA SAMPLE LOCATION FIGURES
(Four Sheets)



LEGEND

	AREA BOUNDARY		SURVEY BENCHMARK
	SHORELINE		EXISTING MONITORING WELL LOCATION
	FORMER WASTEWATER SLUDGE DEWATERING LAGOONS		PROPOSED MONITORING WELL LOCATION
	FENCELINE		PROPOSED SOIL BORING LOCATION
	RAILWAY		PROPOSED TEST PIT LOCATION
	VEGETATION		PROPOSED SURFACE WATER SAMPLE LOCATION
			PROPOSED VERTICAL AQUIFER TESTING LOCATION

SCALE VERIFICATION: THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

No	Revision	Date	Initial

Approved

SITE-WIDE PROPOSED PHASE II SAMPLING LOCATIONS

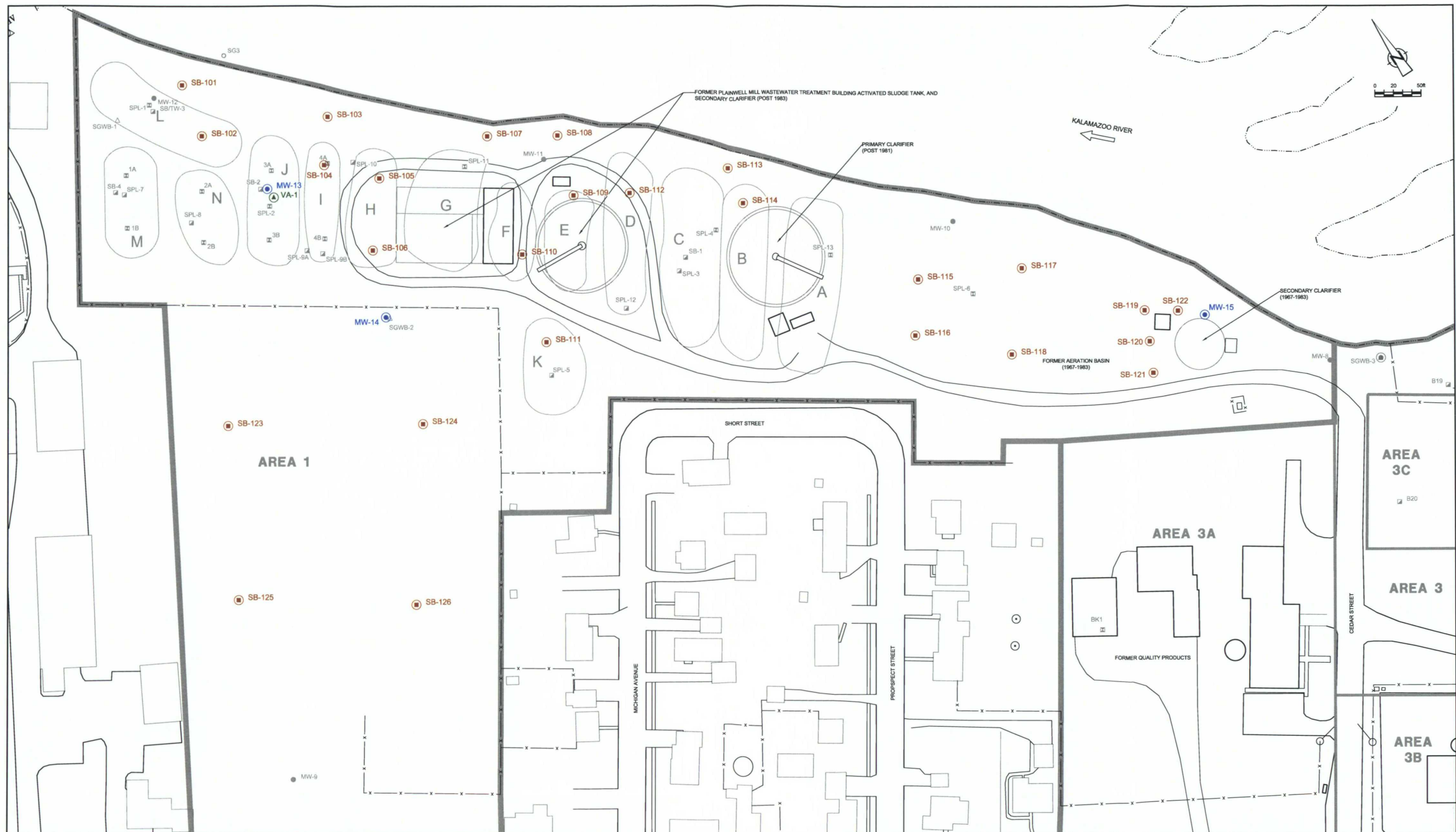
PHASE II REMEDIAL INVESTIGATION WORK PLAN

FORMER PLAINWELL, INC. MILL PROPERTY
PLAINWELL, MICHIGAN

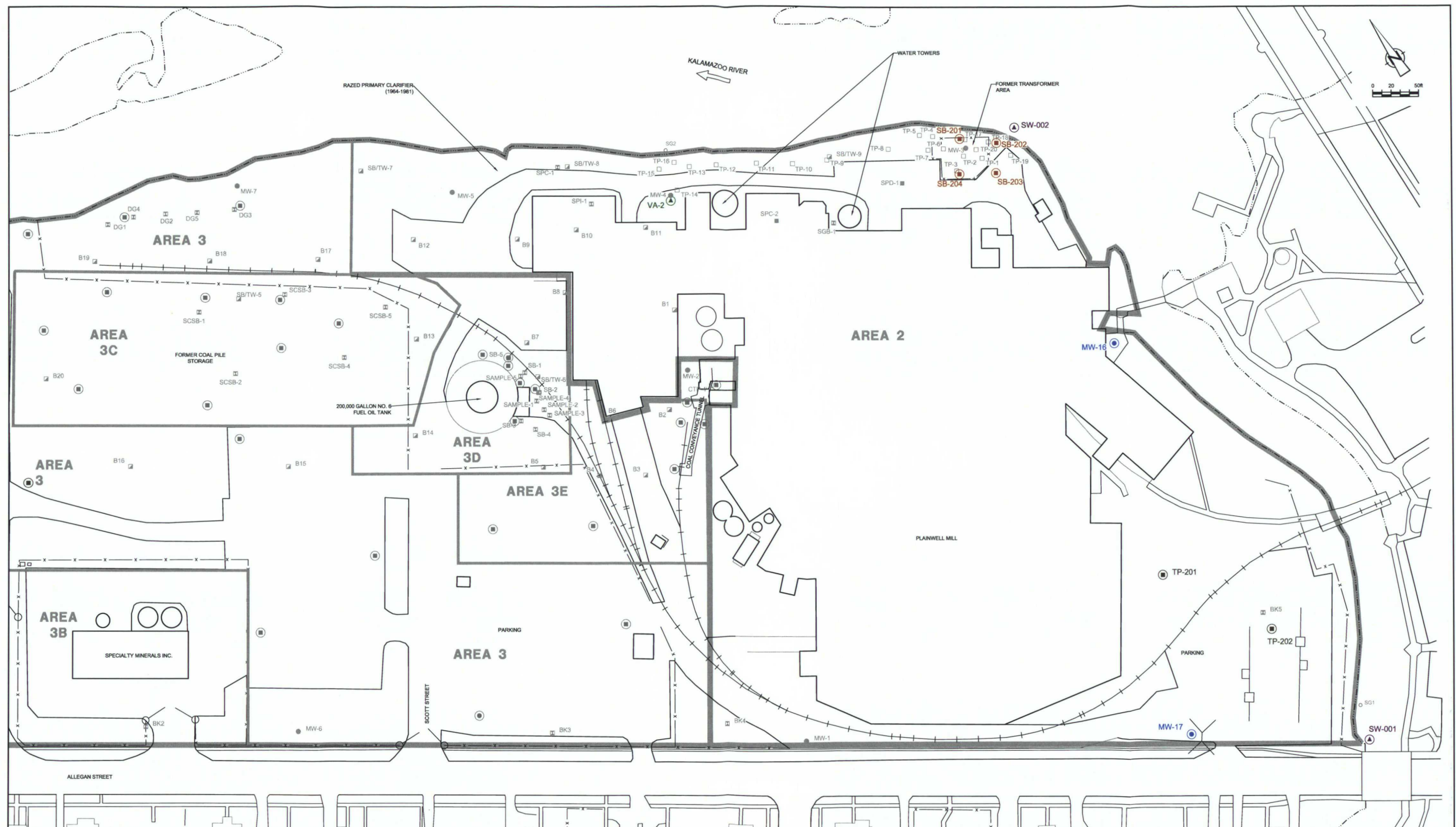
CONESTOGA-ROVERS & ASSOCIATES

Source Reference:			Date: MAY 2009
Project Manager: G. CARLI	Reviewed By: E. STAHL	Designed By:	Drawn By: C. JACOBI
Scale: 1:100	Project No: 056394-04	Report No: 002	Drawing No: FIGURE 5.1

056394-04(002)GN-SC006 SEP 23/2009



<p>LEGEND</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>— AREA BOUNDARY</p> <p>— SHORELINE</p> <p>— FORMER WASTEWATER SLUDGE DEWATERING LAGOONS</p> <p>— FENCELINE</p> <p>— VEGETATION</p> <p>● PROPOSED MONITORING WELL LOCATION</p> <p>○ PROPOSED SOIL BORING LOCATION</p> <p>○ PROPOSED VERTICAL AQUIFER TESTING LOCATION</p> </div> <div style="width: 45%;"> <p>□ PREVIOUS SOIL SAMPLE LOCATION</p> <p>□ PREVIOUS SOIL BORING LOCATION</p> <p>● PREVIOUS MONITORING WELL LOCATION</p> <p>□ PREVIOUS TEMPORARY WELL LOCATION</p> <p>△ PREVIOUS GROUNDWATER SAMPLE LOCATION</p> <p>○ PREVIOUS STAFF GAUGE LOCATION (APPROXIMATE)</p> </div> </div> <p>NOTE: LOCATIONS IN WOODED AREAS ARE APPROXIMATE. ACTUAL LOCATIONS TO BE DETERMINED IN THE FIELD.</p>	<p>SCALE VERIFICATION: THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.</p>	<p>Approved _____</p>	<p>AREA 1 PROPOSED PHASE II SAMPLE LOCATIONS</p> <p>PHASE II REMEDIAL INVESTIGATION WORK PLAN</p> <p>FORMER PLAINWELL, INC MILL PROPERTY</p> <p>PLAINWELL, MICHIGAN</p>	<div style="text-align: center;"> <p>CONESTOGA-ROVERS & ASSOCIATES</p> </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2">Source Reference: RMT PROJ. 00-05121.03</td> <td colspan="2">Date: MAY 2009</td> </tr> <tr> <td>Project Manager: G. CARLI</td> <td>Reviewed By: E. STAHL</td> <td>Designed By:</td> <td>Drawn By: C. JACOBI</td> </tr> <tr> <td>Scale: 1:100</td> <td>Project No: 056394-04</td> <td>Report No: 002</td> <td>Drawing No: FIGURE 5.2</td> </tr> </table>	Source Reference: RMT PROJ. 00-05121.03		Date: MAY 2009		Project Manager: G. CARLI	Reviewed By: E. STAHL	Designed By:	Drawn By: C. JACOBI	Scale: 1:100	Project No: 056394-04	Report No: 002	Drawing No: FIGURE 5.2
Source Reference: RMT PROJ. 00-05121.03		Date: MAY 2009														
Project Manager: G. CARLI	Reviewed By: E. STAHL	Designed By:	Drawn By: C. JACOBI													
Scale: 1:100	Project No: 056394-04	Report No: 002	Drawing No: FIGURE 5.2													



LEGEND

AREA BOUNDARY	PREVIOUS SOIL SAMPLE LOCATION
SHORELINE	PREVIOUS SOIL BORING LOCATION
RAILWAY	PREVIOUS TEST PIT
FENCELINE	PREVIOUS SEDIMENT SAMPLE LOCATION
VEGETATION	PREVIOUS GROUNDWATER MONITORING WELL LOCATION
PROPOSED MONITORING WELL LOCATION	PREVIOUS GROUNDWATER SAMPLE LOCATION
PROPOSED SOIL BORING LOCATION	PREVIOUS STAFF GAUGE LOCATION (APPROXIMATE)
PROPOSED SURFACE WATER SAMPLE LOCATION	
PROPOSED TEST PIT LOCATION	
PROPOSED VERTICAL AQUIFER TESTING LOCATION	

SCALE VERIFICATION: THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

No	Revision	Date	Initial

Approved

AREA 2 PROPOSED PHASE II SAMPLE LOCATIONS

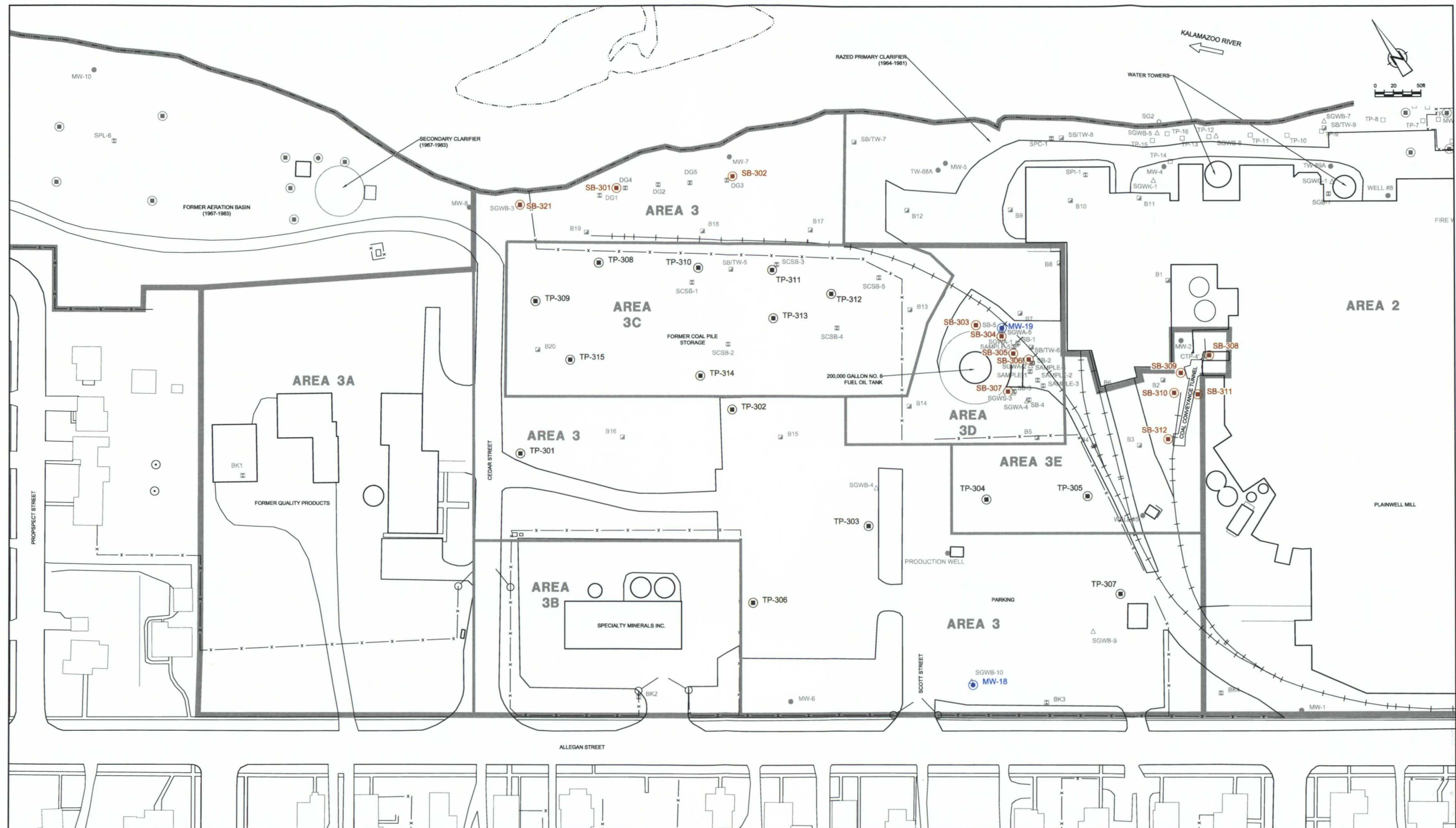
PHASE II REMEDIAL INVESTIGATION WORK PLAN

FORMER PLAINWELL, INC MILL PROPERTY

PLAINWELL, MICHIGAN

CRA CONESTOGA-ROVERS & ASSOCIATES

Source Reference:	RMT PROJ. 00-05121.03	Date:	MAY 2009
Project Manager:	G. CARLI	Reviewed By:	E. STAHL
Designed By:		Drawn By:	C. JACOBI
Scale:	1:100	Project No:	056394-04
Report No:	002	Drawing No:	FIGURE 5.3



LEGEND

	AREA BOUNDARY		PREVIOUS SOIL SAMPLE LOCATION
	SHORELINE		PREVIOUS SOIL BORING LOCATION
	RAILWAY		PREVIOUS TEST PIT
	FENCELINE		PREVIOUS SEDIMENT SAMPLE LOCATION
	VEGETATION		PREVIOUS GROUNDWATER MONITORING WELL LOCATION
	PROPOSED MONITORING WELL LOCATION		PREVIOUS GROUNDWATER SAMPLE LOCATION
	PROPOSED SOIL BORING LOCATION		PREVIOUS STAFF GAUGE LOCATION (APPROXIMATE)
	PROPOSED TEST PIT LOCATION		

SCALE VERIFICATION: THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

No	Revision	Date	Initial

Approved

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AREA 3 PROPOSED PHASE II SAMPLE LOCATIONS

PHASE II REMEDIAL INVESTIGATION WORK PLAN

FORMER PLAINWELL, INC. MILL PROPERTY

PLAINWELL, MICHIGAN

		CONESTOGA-ROVERS & ASSOCIATES	
Source Reference: RMT PROJ. 00-05121.03		Date: MAY 2009	
Project Manager: G. CARLI	Reviewed By: E. STAHL	Designed By:	Drawn By: C. JACOBI
Scale: 1:100	Project No: 056394-04	Report No: 002	Drawing No: FIGURE 5.4

056394-04(002)GN-SC010 SEP 23/2009